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ACI Fall 2008 Convention
November 2-6, 2008
Renaissance Grand & Suites Hotel and America’s Center

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American Concrete Institute
Board of Direction

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Luis E. García

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ACI Members and Guests—Welcome to St. Louis and the ACI Fall 2008 Convention!

It is with great pleasure that I welcome you to St. Louis. Although the organization that formed ACI held its first meeting in St. Louis amid the 1904 World’s Fair, this November will be the first time a convention has been hosted in the Gateway City.

To ensure that every attendee has the opportunity to experience everything the heart of America has to offer, the ACI Missouri Chapter has put together an excellent program containing several technical tours including a tour of the Holcim Cement Plant.

Aside from the tours, St. Louis has endless amounts of landmarks and history for you to explore. St. Louis is known for the famous expedition led by the explorers Lewis and Clark, being host to the 1904 World’s Fair and is home to the nation’s tallest monument, the Gateway Arch. The ACI Missouri Chapter carefully constructed the Tours and Guest Events of the convention to include every aspect of this historic and charming city.

Other special events you do not want to miss include the Student Concrete Cylinder Competition, the Opening Session with Hardy Cross Lecture Series speaker Tony Fiorato, a dinner honoring Luke M. Snell, a reinvented Contractors’ Day, and an Oktoberfest-themed Concrete Mixer.

The ACI Fall 2008 convention has so much to offer every attendee. Whether you are sitting in on technical and educational sessions, attending multiple committee meetings, or networking with friends and colleagues, this convention will provide ample opportunity for professional growth.

Camila and I look forward to sharing in this exciting week with all of you. We hope your convention and trip to St. Louis is productive and memorable! Thank you for your support and contributions to ACI.

Kind Regards,

Luis E. García
ACI President
November 2, 2008
American Concrete Institute Fall 2008 Convention
November 2-6, 2008
St. Louis, Missouri

Dear American Concrete Institute Members:

Welcome to the Fall 2008 Convention of the American Concrete Institute. It is my privilege to welcome you to St. Louis, Missouri, for this occasion.

Since 1904, the American Concrete Institute has facilitated discussion and debate of concrete-related issues. Members of the American Concrete Institute can take advantage of resources such as educational seminars, local discussion forums, and numerous publications aimed at current and relevant information relating to concrete.

During your stay in St. Louis, I encourage you to explore the many different attractions of this historic and diverse city. Best wishes for a productive and enjoyable convention.

Sincerely,

Matt Blunt
November 2, 2008

American Concrete Institute Fall 2008 Convention
St. Louis, Missouri

Greetings:

It is my pleasure to welcome everyone attending the American Concrete Institute Fall 2008 Convention, which is being held in the City of St. Louis. We are extremely pleased that St. Louis was chosen as the site for this important convention.

Our city has a rich and colorful history. Also known as the “Gateway to the West,” we offer beautiful, culturally and ethnically diverse neighborhoods and fabulous attractions for the entire family.

While you are in St. Louis, I encourage you to take time to visit some of our world-famous amenities such as the Gateway Arch on the riverfront or Forest Park where our world-class Art Museum and Zoo are located.

I hope that this convention will offer you the opportunity to exchange new ideas and advances in the field of concrete technology, and that it will be a time to renew old friendships, meet new friends, and share inspiring stories.

Again, welcome to St. Louis, and I wish you much success for a productive and enjoyable convention.

Sincerely,

Francis G. Slay
Mayor, City of St. Louis
Registration for the ACI Spring 2009 Convention in San Antonio opens November 10th!

March 15-19, 2009
Marriott Rivercenter, San Antonio, TX

Participate in the following special events:

- Opening Session and Awards Program
- “A Night in Old San Antonio” Concrete Mixer
- CMC Technical Tour

For more information on the Spring 2009 Convention in San Antonio, TX, go to www.aciconvention.org.
ACI Sustaining Members

ACS Manufacturing Corporation

Boral Material Technologies, Inc.

ALJANS

Buzzi Unicem

Allen Engineering Corp.

Cantera Concrete Company

ALLFLAT

Cemex Inc.

Ash Grove Cement Company

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Concrete Reinforcing Steel Institute

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Future Tech Consultants

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Idra

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Oztec

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Structural Group

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Triad Engineering, Inc.

Tru Wall Concrete, Inc.

Westroc, Inc.
Convention Sponsors
The ACI Missouri Chapter wishes to thank the following organizations for their donations to make the ACI Fall 2008 Convention a success.

Mississippi River
Baker Concrete Construction, Inc.
Continental Cement Company
Holcim (US) Inc.
Vee-Jay Cement Contracting Co.

Missouri River
Center for Transportation Infrastructure and Safety
Lafarge

Illinois River
ACI Missouri Chapter
The Euclid Chemical Company
Sika Corporation

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BASF Construction Chemicals, LLC
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Quality Testing & Engineering, Inc.
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ACI New Mexico Chapter
ACI Ontario Chapter
ACI Rocky Mountain Chapter
ACI San Antonio Chapter
ACI Southern California Chapter
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J.H. Berra Paving
Kienstra Enterprises
L.G.M. Engineers
Landvatter Ready Mix
Monarch Cement Co.
Raineri Building Materials
Luke M. Snell
Tarlton
TXI Expanded Shale & Clay

Babbling Brook
Brundage Bone Concrete Pumping
Cimarron Wholesale
Concrete Promotional Group
KS RMCA & Aggregate Producers
L.G. Everist, Inc.
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Linn State Technical College
Midwest Concrete Industry Board
MO/KS ACPA
Jim Posadny
SEMO Ready Mix
Sierra Corp - Div. TK Products
Virginia Lab Supply

Sponsors are listed as of 10/13/08
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Ganesh Thiagarajan, University of Missouri - Kansas City
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James F. Wills, Scotts Concrete
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Convention Committee

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Beverly A. Garnant, American Society of Concrete Contractors

Exhibits
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James R. VanAcker, Hunt Martin Materials
Dave Barnes, Vee-Jay Cement
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Kathy Luther
Cassy Vaughan

Publicity Chair
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Rene LaBruee, Quality Testing and Engineering, Inc.

Student Program
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Patrick T. Earney, Trabue, Hansen and Hinshaw

Technical Program
Abdeldjelil Belarbi, Missouri University of Science and Technology
Vellor Gopalaratnam, University of Missouri - Columbia
John J. Myers, Missouri University of Science and Technology

Treasurer
John Harris, CASCO
Update your account and preferences with ACI by February 2, 2009, and you’ll be eligible to win a $500 gift certificate to use towards any product or service ACI currently offers, including:

- Books and documents from ACI’s bookstore
- Membership fees
- Certification programs
- ACI conventions and other ACI events
- Educational seminars

For a chance to win, follow these steps:

2. Update any outdated or inaccurate contact information.
3. Click on “Member/Customer Segmentation” on the top of the page and update your preferences.
4. Check the “Be entered into the drawing to win a $500 ACI gift certificate” box at the top of the page, and “Submit Form.”

The winner of the $500 ACI gift certificate will be notified by phone or e-mail on or around February 2, 2009.
General Information

ACI Registration

ACI staff is available to answer your convention questions at the ACI Registration Desk during the following hours:

- **Saturday:** 2:00 PM - 6:00 PM
- **Sunday:** 7:30 AM - 5:00 PM
- **Monday:** 8:00 AM - 5:00 PM
- **Tuesday:** 8:00 AM - 5:00 PM
- **Wednesday:** 8:00 AM - 12:00 PM

Name Badges

ACI uses color-coded name badges to identify attendees. Name badges are as follows:

- **Member:** Blue
- **Attendee:** Black
- **Fellow:** Green
- **Honorary Member:** Red
- **Staff:** Orange
- **Guest:** Tan
- **Student:** Green Ribbon

Attention ACI Attendees!

First-time convention attendees have a 🐟 on their name badge. Please welcome them to the convention!

Schedule Changes

Cancellations, additions, and location changes to the convention schedule will be posted daily on a monitor inside the Renaissance Hotel Lobby or at the America's Center Rooms 100-105.

Set Your Clocks Back!

Daylight savings time ends on Nov. 2, 2008 at 2:00 AM. Be sure to set your clocks back one hour before going to bed the night before.

Emergencies

In the event of an emergency, we kindly request that you do NOT dial 9-1-1. Please go to the nearest house phone to reach security by dialing ‘0’ at the Renaissance Grand or 5081 at the America’s Center.
General Information

Beverage Breaks & Lunch Concessions
Saturday  Soda: 2:00 PM - 5:00 PM
Sunday - Tuesday  Coffee: 7:30 AM - 10:30 AM
Lunch Concession: 11:00 AM - 2:00 PM
Soda: 12:00 PM - 3:00 PM
Wednesday  Coffee: 7:30 AM - 10:30 AM

ACI Water Bottle
In an attempt to lessen the amount of bottled water thrown away during each convention, ACI has chosen not to provide bottled water to attendees. As a replacement, ACI will provide attendees with a reusable water bottle that can be filled at several water stations throughout the hotel. Thank you for your support, and enjoy!

Alcohol Policy
Nonalcoholic beer and soft drinks are available at all ACI-sponsored receptions. The legal drinking age in Missouri is 21.

ACI Bookstore—Outside C-100
Visit the ACI Bookstore during the following hours:
Saturday  2:00 PM - 6:00 PM
Sunday - Tuesday  8:00 AM - 5:00 PM
Wednesday  8:00 AM - 12:00 PM

Career Center—ACI Bookstore—Outside C-100
Looking for a job or an employee? Visit the ACI Bookstore to view ACI’s Online Career Center. This job search engine is specifically targeted to the concrete industry. Job seekers, you’ll have an opportunity to post your resume and to view, apply for, and save available jobs. Employers, you’ll have the opportunity to post job openings, post internships FREE of charge, and target the individuals you want to attract.

Membership Information—ACI Bookstore—Outside C-100
To learn MORE about the new ACI membership benefits and how to become a member, visit the ACI Bookstore in C-100-105.

ACI/Elsevier E-Learning—Outside C-100
ACI is expanding its reach to provide educational training via the Internet. This program is a partnership between ACI and Elsevier Inc., and will cover topics from ACI certification training to courses covering design, construction, and repair of concrete. E-Learning courses are expected to be available beginning in January 2009. Representatives from Elsevier are available throughout the week to help demonstrate and launch this new program.
General Information

Cyber Café and Wireless Hot Spot

Stay connected to home and work! Take advantage of the Cyber Café and FREE wireless hot spot available at the America’s Center rooms C-100-105 during the following hours:
Saturday 2:00 PM - 6:00 PM
Sunday - Tuesday 8:00 AM - 5:00 PM
Wednesday 8:00 AM - 2:00 PM

To access the wireless connection, look for ACI Cybercafe 1, ACI Cybercafe 2, ACI Cybercafe 3, or ACI Cybercafe 4 in your network connections.

Session Handouts on Demand

Session handouts for this convention are now available via the ACI Web site. Stop by the Cyber Café or go to www.aciconcrete.org/handouts to download or print a copy of the handouts for the sessions you plan to attend. Video and audio taping is prohibited without the speaker’s express written consent.

Local Information/ACI Missouri Chapter

ACI Missouri Chapter members will be happy to answer questions about the local area. Stop by their information desk during the following hours:
Saturday 2:00 PM - 6:00 PM
Sunday - Tuesday 8:00 AM - 5:00 PM

Restaurant Information Booth

Stop by the restaurant information booth for information and suggestions.
Sunday 11:30 AM - 6:30 PM
Monday 11:00 AM - 5:00 PM

Hotel Restaurants and Lounges

An American Place

Dinner Tuesday through Thursday 5:00 PM to 10:00 PM; Friday and Saturday 5:00 PM to 11:00 PM

This St. Louis restaurant is known as “One of the most beautiful restaurants in America, serving cuisine in touch with America’s Heartland.” Situated in the old lobby of the hotel, formal attire (jacket and tie) is required. Reservations recommended.
Capri Restaurant
R-Concourse Level, Hotel Building
Open daily for breakfast and lunch 6:30 AM to 2:00 PM, and dinner 5:00 PM to 10:00 PM
Specializing in midwestern American cuisine, Capri offers a wide variety of buffet options for breakfast such as crepe and omelette stations. Lunch and dinner menus offer items such as St. Louis-style pork steak, pasta, chicken, fish, and their signature Gooey Butter Cake.

Grand Lobby Bar
R-Concourse Level, Hotel Building
Cocktail and light fare menu: 2:00 PM to 1:00 AM daily
The Grand Lobby Bar is a sophisticated spot for cocktails and conversation prior to a delightful St. Louis dining experience.

Starbucks
R-Concourse Level, Hotel Building
6:30 AM to 8:00 PM daily
For a quick and light breakfast, snack, or lunch, stop by Starbucks to pick up coffee, pastries, yogurt, fruit, or sandwiches.

Washington Avenue Bistro
R-Suites Lobby, Suites Tower
11:00 AM to 10:00 PM daily
This lobby restaurant serves American Bistro cuisine for lunch and dinner.

Room Service
Sunday through Thursday 6:00 AM to 12:00 AM; Friday and Saturday 6:00 AM to 1:00 AM

Nearby Restaurants
Restaurants within walking distance of the Renaissance Grand & Suites Hotel include:

Flannery’s—This Irish-inspired pub is open for lunch and dinner; 0.8 miles from the hotel.

Kitchen K—Contemporary restaurant featuring Hawaiian seafood flown in daily; 0.1 mile from the hotel.

Lucas Park Grille—A St. Louis steakhouse with stone fireplaces, plasma TVs, and eclectic lighting. Open for lunch and dinner; 0.2 miles from the hotel.

Mosaic—Modern fusion cuisine. First tapas and fusion restaurant in Downtown; 0.3 miles from the hotel.
General Information

**Sen Thai**—Offers a full line of Thai, Japanese, and Chinese cuisine for lunch and dinner; 0.5 miles from the hotel.

**The Dubliner**—Authentic European gastropub serving high-quality Irish-inspired food; 0.2 miles from the hotel.

**Wasabi**—Traditional Japanese cuisine in a unique, traditional atmosphere; 0.5 miles from the hotel.

**Airport Transportation**

**Airport Shuttle:** TransExpress Shuttle offers a scheduled transfer service, 7 days a week from 6:00 AM to 10:00 PM to Lambert-St. Louis International Airport (STL) from the Renaissance Grand & Suites Hotel for $15.00 each way. Departing guests must make a reservation for any airport transfer after 6:30 PM. For a detailed list of departure times or to make a reservation, please call 1-800-844-1985 or visit: [www.transexpress-stl.com](http://www.transexpress-stl.com). Please note that TransExpress does make additional stops at other hotels on the way to and from the Renaissance Grand & Suites, which could delay your anticipated arrival/departure times.

**Taxis:** Departing guests should speak with the hotel concierge to arrange transportation back to Lambert-St. Louis International Airport. The average cost of a taxi to the airport is approximately $35.00-$40.00 one way, depending on the number of passengers and the time of day.

**MetroLink:** MetroLink offers a light rail service to the Lambert-St. Louis International Airport for $3.50 for the return trip. Departing guests will find the MetroLink Lambert station two blocks east of the Renaissance Grand & Suites Hotel. MetroLink is open from 4:30 AM to 11:00 PM Monday through Friday and 5:30 AM to 11:00 PM Saturday and Sunday, and runs approximately every 7 to 20 minutes, depending on the time of day. The approximate travel time to the airport is 38 minutes. For a detailed list of departure times and stations or to purchase your MetroLink ticket in advance, please go to [www.metrostlouis.org](http://www.metrostlouis.org). You may also purchase your MetroLink ticket at any MetroLink Station prior to boarding.

MetroLink also offers a Ride Free Zone from the Convention Center Station Monday through Friday from 11:30 AM to 1:30 PM to select downtown destinations. One-way fare is $2.00.
Session Attendance Tracking Form
The Session Attendance Tracking Form found between pages 172 and 173 can be submitted to state boards that allow self-reporting of Continuing Education activities as evidence of participation. In most cases, one contact hour is equal to one professional development hour (PDH). Check with your state board for acceptance criteria.

Please note: ACI does not track and cannot provide documentation confirming attendee participation or attendance at any ACI session held during the convention.

Speaker Ready Room C-200
The Speaker Ready Room is available to moderators, speakers, and committee chairs during the following hours:

Saturday 12:00 PM - 7:00 PM
Monday - Tuesday 7:00 AM - 7:00 PM
Wednesday 7:00 AM - 2:00 PM

All speakers are requested to check in at the Speaker Ready Room one day prior to their session to ensure that:

- ACI has your presentation on the network in the session rooms;
- and your
- Speakers’ session handouts are downloaded onto the ACI Web site.

Audio and videotaping are strictly prohibited without the expressed written consent of the speaker.

In consideration of your fellow attendees, please turn off your cell phones and pagers when attending sessions and committee meetings.

ACI Spring 2009 Convention Information Outside C-100-105
The ACI San Antonio Chapter will be available Saturday through Tuesday to answer your questions about San Antonio and activities at the spring 2009 convention. Mark your calendars for March 15-19, 2009, at the Marriott Rivercenter!
Book Drive!

Help ACI fight adolescent illiteracy by donating a new or gently-used children's book today!

Donations can be made in the exhibit area of the America’s Center.
Where’s That Meeting Room?
All rooms in red are in the Renaissance Grand & Suites Hotel
All rooms listed in blue are in the America’s Center

R = Renaissance Grand & Suites Hotel

R-LOBBY, Hotel Building, Lobby Level
R-AN AMERICAN PLACE, Hotel Building, Lobby Level
R-AUBERT, Hotel Building, Mezzanine Level
R-BENTON, Hotel Building, Mezzanine Level
R-CRYSTAL, Hotel Building, 20th floor
R-FLORA, Hotel Building, 21st floor
R-FORSYTH, Suites Tower, 2nd floor
R-HAWTHORNE, Hotel Building, 21st floor
R-KINGSBURY, Concourse Building, 1st floor
R-LACLEDE, Hotel Building, 20th floor
R-LAFAYETTE, Hotel Building, Mezzanine Level
R-LANDMARK BALLROOM, Concourse Building 1st floor
R-LANDMARK 1, Concourse Building, 1st floor
R-LANDMARK 2, Concourse Building, 1st floor
R-LANDMARK 3, Concourse Building, 1st floor
R-LANDMARK 4, Concourse Building, 1st floor
R-LANDMARK 5, Concourse Building, 1st floor
R-LANDMARK 6, Concourse Building, 1st floor
R-LANDMARK 7, Concourse Building, 1st floor
R-LENNOX, Suites Tower, 2nd floor
R-LINDELL, Concourse Building, 1st floor
R-LUCAS, Hotel Building, 21st floor
R-MAJESTIC BALLROOM, Concourse Building, 2nd floor
R-MAJESTIC A, Concourse Building, 2nd floor
R-MAJESTIC B, Concourse Building, 2nd floor
R-MAJESTIC C, Concourse Building, 2nd floor
R-MAJESTIC D, Concourse Building, 2nd floor
R-MAJESTIC E, Concourse Building, 2nd floor
R-MAJESTIC F, Concourse Building, 2nd floor
R-MAJESTIC G, Concourse Building, 2nd floor
R-MAJESTIC H, Concourse Building, 2nd floor
R-PARKVIEW, Hotel Building, Mezzanine Level
R-PORTLAND, Hotel Building, Mezzanine Level
R-PERSHING, Concourse Building, 1st floor
R-RATHSKELLER, Suites Tower, Lower Level
R-SHAW, Hotel Building, Mezzanine Level
R-SUITES LOBBY, Suites Tower, Lobby Level
R-WESTMINSTER, Suites Tower, 2nd floor
R-WESTMORELAND, Concourse Building, 1st floor
R-434, Hotel Building, 4th floor
Where’s That Meeting Room?
All rooms in red are in the Renaissance Grand & Suites Hotel
All rooms listed in blue are in the America’s Center

C = America’s Center

C-90, 1st floor
C-91, 1st floor
C-92, 1st floor
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C-94, 1st floor
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Exhibitors
Exhibitor listing as of 10/7/08

Exhibits

The ACI Missouri Chapter and the American Concrete Institute wish to thank all exhibitors for their participation in and support of the ACI Fall 2008 Convention.

Exhibit Hours

Saturday 2:00 PM - 6:00 PM
Sunday 7:30 AM - 5:00 PM and 6:30 PM - 7:30 PM
Monday 8:00 AM - 5:00 PM
Tuesday 8:00 AM - 5:00 PM
Wednesday 8:00 AM - 12:00 PM

BASF Construction Chemicals, LLC
Booth #1
BASF’s Construction Chemicals division is the worldwide supplier of chemical systems and formulations for the construction industry. The North American Construction Chemicals Division of BASF comprises four business lines that offer products and solutions primarily for commercial, residential, industrial, and infrastructure construction improving durability, water resistance, energy efficiency, safety, and aesthetics. BASF’s innovative products and solutions help make products better. Contact BASF Construction Chemicals at 800-628-9990 or visit www.masterbuilders.com.

Big River Industries
Booth #4
Big River Industries is the nation’s largest producer of rotary kiln expanded clay lightweight aggregates. With operations in Louisiana (Gravelite®), Alabama (Livlite®), and Arkansas (Arkalite®), Big River provides lightweight aggregates for structural concrete, concrete masonry, geotechnical fill, asphalt paving, and other applications throughout a 23-state area. To learn more about Big River Industries, visit www.bigriverind.com.

Buckeye Building Fibers LLC
Booth #52
Buckeye produces UltraFiber 500®, the patented cellulose fiber that provides unsurpassed secondary crack control in a variety of concrete applications. For more information on Buckeye, go to www.bkitech.com.

Butterfield Color
Booth #13
Butterfield Color is a manufacturer of coloring systems and tools for the decorative treatment of new or existing concrete. Products are suitable for interior floors, exterior hardscapes, and vertical surfaces: integral colors, shake-on color hardeners, stains, dyes, stamping tools, overlays, and sealers. Almost unlimited architectural expression is possible with concrete.
CON-CURE Corporation  
Booth #51
Imagine a reusable device that can send real-time strength and temperature information directly to your computer automatically, so you always know the strength and curing rate of your fresh concrete. Impossible, you say? No! Stop by CON-CURE’s booth to see their innovative new concrete maturity meters in action! Visit www.con-cure.com for more information.

Decon USA Inc.  
Booth #11
Decon® Studrail®: The genuine punching shear reinforcement. Decon Studrails have superior seismic performance commonly used in post-tension slabs with direct loading on columns. Studrails will replace stirrups as well as drop panels, beams, and column capitos. A further Studrail application includes the replacement of hairpins or u-bars in the post-tensioned tendon anchorage zone. Updated and free design software is available at www.deconusa.com.

Electro TechCP  
Booth #8
Electro TechCP is a unique organization that specializes in applying engineered solutions to corrosion problems. Electro TechCP possesses skills and experience not only in diagnosing corrosion problems, but also in designing optimal countermeasures for corrosion control. For additional information, go to www.cpmonitoring.com.

Engius  
Booth #16
Engius offers technologies that enable you to work smarter, not harder. The intelliRock concrete maturity and temperature profiling system helps you determine accurate concrete strength and temperature in real time. Now information from intelliRock sensors can be transmitted wirelessly to computers at the job site. Engius also offers the EZ Cure line of affordable curing boxes that both heat and cool to maintain a constant curing temperature. Visit www.engius.com for more information.

ERICO  
Booth #31
ERICO is a leading designer, manufacturer, and marketer of precision-engineered specialty metal products serving global niche product markets in a diverse range of electrical, construction, utility, and rail applications. LENTON®: Reinforcing bar splicing systems and other reinforcing products are used to connect steel reinforcement rods in concrete. Visit www.erico.com for more information.
Exhibitors
Exhibitor listing as of 10/7/08

The Euclid Chemical Company  Booth #28
The Euclid Chemical Company, founded in 1910, is a worldwide supplier of quality products and services for the concrete and masonry industry. Euclid offers a full line of admixtures and repair and maintenance products based on the latest technology. Euclid provides on-site service for guidance on proper product usage as well as complete specification assistance and laboratory support. To learn more about The Euclid Chemical Company, visit www.euclidchemical.com.

Flatwork Technologies  Booth #22
Flatwork is a revolutionary new products company specializing in state-of-the-art concrete finishing tools, products, and the flagship heat-spreading equipment known as Power Blanket. Keep crews working all winter long. Use Flatwork for all your cold weather, thawing, curing, heating, and ice/snow melting outdoor construction needs.

FORTA Corporation  Booth #36
Founded in 1978, FORTA is the oldest synthetic fiber reinforcement producer in the country. Celebrating 30 years, FORTA Corporation has grown to become a worldwide leader in synthetic fiber research and development. The most recent innovation is FORTA FERRO, a macro-synthetic fiber that allows for a higher replacement level of conventional steel reinforcement. For further information, go to www.fortacorp.com.

Fred Weber Inc.—Iron Mountain Trap Rock  Booth #25
For more information on Iron Mountain Trap Rock Pre-Mixed Floor Hardener, visit www.fredweberinc.com.

General Resource Technology  Booth #12
General Resource Technology's entire emphasis is the marketing of construction chemicals and fiber reinforcement systems for the concrete industry. This specific area of focus allows the organization to be completely responsive to the needs of its customers. General Resource Technology is committed to quality, service, and product performance. Visit www.grtinc.com for more information.
Exhibitors
Exhibitor listing as of 10/7/08

Germann Instruments, Inc. Booths #15 & 20

Grace Construction Products Booth #21
Headquartered in Cambridge, MA, Grace Construction Products is a worldwide leading manufacturer of concrete admixtures and fibers; liquid pigments for colored concrete; cement processing additives; concrete masonry products; air and vapor barriers; roofing underlayments; self-adhered window; door, and deck flashings; structural waterproofing systems; and fire protection products.

Greenstreak Group Inc. Booth #7
Since 1950, Greenstreak has served the general and architectural concrete construction industry. Greenstreak offers the largest selection of waterstops in North America for water, wastewater, and chemical containment. Stop by Greenstreak’s booth to see the latest innovations for the slab-on-ground market including load transfer dowels/plates, dowel basket assemblies, and curing blanket. Visit www.greenstreak.com for more information.

Headwaters Resources Inc. Booth #23
Headwaters Resources is America’s largest manager and marketer of coal combustion products, including fly ash. Fly ash use improves concrete performance, making it stronger, more durable, and more resistant to chemical attack. Fly ash use also creates significant benefits for our environment by reducing landfill use and offsetting greenhouse gas emissions. Visit www.flyash.com for more information.

Holcim (US) Inc. Booth #27
Holcim (US) is one of the largest cement manufacturers in the United States. Headquartered in Waltham, MA, there are 16 manufacturing facilities and more than 75 distribution terminals. For information on Holcim’s portland/blended cement, masonry/mortar cement, mineral components, or technical services, visit www.holcim.us or call 888-646-5246.
ICI Rheocenter Booth #24
ICI Rheocenter is the center of excellence in cement-based materials, focusing on rheology, cement admixture interactions, and special concrete such as SCC. ICI Rheocenter solves problems for companies from all over the world, such as cement producers, ready mixed concrete plants, and admixture producers. Visit www.nmi.is for more information.

Kryton International, Inc. Booth #2
Kryton International has been a worldwide leader in the manufacturing and distribution of crystalline concrete waterproofing systems since 1973. Kryton’s products are distributed in more than 40 countries and are requested by name by architects, engineers, building owners, and facility managers around the globe. Visit www.kryton.com to learn more about Kryton’s products.

Lafarge Booth #42
Lafarge is the largest diversified supplier of construction materials in the United States and Canada. The company’s products, including a full line of cements, cement-related materials, and concrete, are used for residential, commercial, institutional, and public works construction. Visit www.lafarge.com for more information.

Maccaferri Group, Inc. Booth #17
Maccaferri Group, Inc., has been globally active in fiber-reinforced concrete solutions for more than 25 years. Fiber-reinforced concrete is a new composite obtained by adding a single type or a blend of fibers to the concrete mixture. Wire and steel fibers are used to reinforce the concrete. Fibromac synthetic fibers are used as a complement to the concrete. Visit www.maccaferri-usa.com for more information.

Missouri University of Science and Technology Booth #53
The Center for Transportation Infrastructure and Safety (CTIS) is a USDOT-sponsored National University Transportation Center at Missouri University of Science and Technology (formerly University of Missouri-Rolla) undertaking research, technology transfer, and education in the theme areas of advanced materials, nondestructive testing technologies, and the transition-state fuel vehicle infrastructure. Visit ctis.utep.edu for more information.
Exhibitors
Exhibitor listing as of 10/7/08

NEES Consortium Inc.  Booth #29
NEES Consortium Inc. operates the Network for Earthquake Engineering Simulation (NEES) consisting of 15 university-based equipment sites. These NSF-funded sites include three shake tables, a large tsunami test facility, three field sites, two geotechnical centrifuges, and six large structural laboratories. NEES experimental sites are state of the art and used by researchers to study engineered systems under earthquake excitation. To learn more about the NEES Consortium, visit www.nees.org.

Octaform Systems Inc.  Booth #14
Octaform’s finished, stay-in-place forming systems are engineered for a wide range of industries including precast and tilt-up. They can also be used for walls, tanks, and barriers. Visit www.octaform.com for more information.

Omya Canada, Inc.  Booth #3
Omya is the worldwide leader in high-quality calcium carbonate. Fine calcium carbonate fillers (new mineral admixture) can be used to optimize the particle packing of a concrete mixture design. It improves green strength, finishes, fluidity, and workability, and it reduces excessive bleeding and segregation. Savings can be achieved through cementitious content reduction. For more information, go to www.pshcanada.com.

Outokumpu Stainless  Booth #5
Outokumpu is an international stainless steel company with a vision to be the undisputed number one in stainless. Our plate, pipe, coil, and bar (including reinforcement bar) stainless products—particularly in duplex stainless—are becoming the materials of choice for construction. Duplex grades of stainless steel reinforcing bar are ideal for concrete because it combines many of the beneficial properties of ferritic and austenitic steels, offering high strength and high resistance to stress corrosion cracking along with very good resistance to uniform corrosion. Visit www.outokumpu.com for more information.

Proceq USA Inc.  Booth #19
Proceq USA offers a complete range of portable concrete testing instruments for nondestructive site investigations. Products include the Original SCHMIDT Concrete Test Hammer, Profometer 5+ Rebar Detection System, as well as a host of other products for ultrasonic pulse velocity, corrosion analysis, resistivity, permeability, and pulloff/bond strength test applications. Visit www.proceq-usa.com for additional information.
Exhibiters
Exhibitor listing as of 10/7/08

QuakeWrap Inc.  Booth #6
QuakeWrap Inc. is a leading designer, supplier, and installer of quality, innovative fiber-reinforced polymer (FRP) products for repair and strengthening structures. The company is also a pioneer research and development firm committed to providing economical solutions and unparalleled service to engineers, architects, and owners. Visit www.quakewrap.com for more information.

Sika Corporation  Booth #18
Sika Corporation Construction Products Division, Lyndhurst, NJ, is a technology leader with over 90 years of experience in concrete materials and restoration technology. Sika's product line includes concrete admixtures, sealants, adhesives, corrosion inhibitors and total corrosion management products, specialty mortars, epoxy resins, structural strengthening systems, grouts, anchoring adhesives, industrial flooring and wood floor adhesive systems, and installation products. Full service sales and technical offices support customers nationwide. Please visit the Sika Corporation Construction Products Division Web site at www.sikaconstruction.com.

Silica Fume Association  Booth #43
The Silica Fume Association provides high-performance concrete technology and practical know-how to the concrete construction industry. The Silica Fume User's Manual (FHWA pub# IF-05-016), Life 365 V2.0 Service-life and Life-cycle model, and other concrete tools are provided to help concrete producers and designers use silica fume and high-performance concrete economically and appropriately. Learn more about the Silica Fume Association by going to www.silicafume.org.

Solomon Colors  Booth #32
Solomon Colors is an 80-year-old producer of iron oxide pigment for the concrete industry. They supply A,H,X mortar color; dry ready mix pigment; and liquid pigment. They also sell a full line of automated color dispensing systems and offer a complete line of decorative concrete products through their Legacy and Brickform product lines. Visit www.solomoncolors.com for more information.
SYNTHEON INC.—a subsidiary of NOVA Chemicals

Elemix concrete additive is comprised of innovative polymeric spheres that have been specially formulated for use in concrete. It distributes uniformly in concrete, providing lighter weight and enhanced durability in structural and nonstructural applications. Elemix additive may also be used to provide excellent flexural strength and increased R-value. Visit www.elemix.com for more information.

Taylor & Francis Group

Taylor & Francis is a premier publisher of civil and construction engineering publications under the CRC Press and Routledge imprints. Please visit Taylor & Francis during the convention to peruse their newest offerings. For more information, please visit www.crcpress.com or www.routledge.com.

Thermo Fisher Scientific

Think Thermo Scientific for superior analytical instruments, laboratory equipment, software, services, consumables, and reagents. Find better workflow solutions spanning sample preparation, sample analysis, and data interpretation. For more information, please visit www.thermofisher.com.

Vector Corrosion Technologies

Vector Corrosion Technologies offers a portfolio of solutions for concrete corrosion repair and protection that includes electrochemical chloride extraction, cathodic protection, and an array of galvanic protection systems, including embedded galvanic anodes, galvanic jackets, and activated arc-spray zinc metalizing. Vector also provides evaluation, repair, and mitigation services for post-tension corrosion and temperature-resistant composite strengthening systems. Contact Vector at 813-830-7566 or visit www.vector-corrosion.com.

Xypex Chemical Corporation

Xypex Chemical Corporation manufactures high-performance products for the protection and waterproofing of concrete. For further information, visit www.xypex.com.
Special Events

Notable Concrete in St. Louis & Vicinity
ACI Committee 124, Aesthetics, has developed a compendium of notable concrete projects in St. Louis and the surrounding area. Sites include the Pulitzer Foundation for the Arts, Renaissance Grand & Suites Hotel, Ossenfort Road Bridge, Tarlton Corporation, and more. For a complete listing and map to visit these sites at your leisure during the convention, pick up a copy at the ACI Registration Desk or go to: http://www.concrete.org/Convention/fall-Convention/NotableConcrete.htm.

Saturday, November 1, 2008

Sustainable Development Workshop on Concrete, Green Building, and ISO Standards
1:00 PM - 6:00 PM
Session Co-Moderators: Koji Sakai and Douglas J. Sordyl

This workshop will focus on environmental management for concrete and concrete structures, with specific focus on the new Standard under development by ISO/TC71/SC8. Discussion topics will include an evaluation system on the materials flow of concrete, environmental design of concrete structures, green concrete technologies for life-cycle design of concrete structures, and more.

✓ Dining and Dancing on the Mississippi
$78 U.S. per person
Depart: 6:30 PM Renaissance Grand—St. Charles Street exit;
Return: 10:30 PM
Experience the “Mighty” Mississippi first hand during a Gateway Riverboat dinner cruise. You will depart the hotel via luxury motor coach for the riverfront to board an authentic paddle wheeler. During the private 2-1/2 hour cruise, view the dramatic St. Louis skyline, enjoy a delicious prime rib dinner, and be entertained by one of St. Louis’ best Dixieland bands. The full menu includes:

- Tossed Salad with Parmesan Vinaigrette Dressing
- Roast Prime Rib of Beef with Au Jus
- Choice of Potato
- Choice of Vegetable
- Fresh Rolls and Butter
- Coffee and Iced Tea
- Chef’s Special Dessert
- A Cash Bar will be available.

Due to Riverboat’s requirements, tickets will NOT be available on site for purchase.
First-Time Convention Attendee Breakfast
8:00 AM - 9:00 AM
Sponsored by the ACI Convention Committee

First-time convention attendees are invited to join Bill Rushing, Chair of the ACI Convention Committee, for a continental breakfast and a brief session to orient you to the week ahead. Attendees will have the opportunity to meet other convention attendees and learn about what an ACI convention has to offer.

Holcim Plant Tour
7:30 AM - 12:30 PM
$45 U.S. per person

Enjoy a tour of the Holcim Cement Plant. Opening in 2009, the Holcim Cement Plant is soon to be one of the largest producers of portland cement, estimated to produce over 4,000,000 metric tons of cement a year. No shorts are allowed on this tour, shirts/blouses with sleeves must be at least 4 inches in length, and you must wear closed-toe shoes. No high heels are allowed. A 20-minute safety video must be viewed before the tour begins. This tour includes a boxed breakfast. Departure for this tour will be located at the St. Charles Street exit at the Renaissance Grand.
International Lunch
12:00 PM - 2:00 PM
$43 U.S. per person
Hosted by the ACI International Committee

Speaker: Konrad Bergmeister
Professor
Universität für Bodenkultur
Vienna, Austria

Topic: Repair and Maintenance of Aging RC Bridges
Join other ACI attendees for a discussion on the repair and maintenance of aging RC bridges during the International Lunch with featured speaker Professor Konrad Bergmeister from the Universität für Bodenkultur in Austria. Dr. Bergmeister has a PhD in both rural architecture and civil engineering, as well as a master’s degree in manufacturing systems from Clarkson University. In addition to his 18 years of professional experience, Dr. Bergmeister is also a member of the Berlin-Brandenburg Academy of Science and the German Academy of Science.

Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.

Student Concrete Cylinder Competition
1:00 PM - 5:00 PM
Sponsored by Committee E801, Student Activities, and the ACI Missouri Chapter
Session Co-Moderators: Lawrence H. Taber and Patrick T. Earney

Students must produce a concrete cylinder made of specific cementitious materials that will withstand a compression test and other performance measuring criteria. Come cheer on your favorite team!

Testing device provided by SCI Engineering
Building the Arch Film “Monument to the Dream” C-100-105
3:30 PM
A film documenting the construction of the arch will be shown.

Opening Session and Hardy Cross Lecture Series C-221
5:15 PM - 6:30 PM

This Opening Session officially kicks off the St. Louis Convention with the annual Hardy Cross Lecture Series, with featured speaker Tony Fiorato, former President, CTL Group. He will be discussing how Hardy Cross raised issues on engineering standardization that are just as relevant today as when he wrote them 80 years ago. The talk will address standardization of building codes, materials specifications, test methods, and how we can benefit from Cross’ reflections on “intelligent standards versus standardized intelligence.”

Opening Reception C-100-105
Approximately 6:30 PM - 7:30 PM
Sponsored by the ACI Missouri Chapter

Following the Opening Session, meet your colleagues, friends, and exhibitors for a beverage from the cash bar and light refreshments in the exhibit area. This is a networking opportunity you won’t want to miss!
It is time that we initiate a serious dialogue within the professional community in particular, and the nation at large on the critical tasks of renewing and securing our bridge infrastructure. Approximately 30% of America’s 600,000 public bridges are classified as either structurally deficient or functionally obsolete, with the cost of rehabilitation or replacement estimated at over $150 billion. Added to normal aging and deterioration is the new challenge of securing our critical bridges against the potential threat of terrorism. The economic and psychological impact of a successful attack on one of our critical bridges is likely to be devastating. This Hot Topic Session will bring together a panel of engineering experts from academic, state, and federal agencies to talk about the reconstruction efforts of the I-35 bridge in Minneapolis, recent developments and challenges in highway bridge inspection, and cost-effective security mitigation strategies for highway bridges. The discussions to follow will highlight recent advances in materials, construction, and inspection techniques, and threat mitigation strategies that will aid in this renewal effort.
Workshop for Technical Committee Chairs C-221
6:30 AM - 8:15 AM
Sponsored by the ACI Technical Activities Committee

Session Moderator: David A. Lange
Associate Professor
University of Illinois
Urbana, IL

ACI Technical Committee Chairs are expected to attend this breakfast workshop to meet with fellow chairs, TAC members, and ACI staff, and to hear updates on important recent developments of interest to ACI Technical Committee Chairs. There will be table discussions and short presentations. If you are unable to attend, please ask the secretary or another committee member to represent you in your absence.

Speaker Skills Training Breakfast: Teaching Methods and Educational Materials C-232
7:00 AM - 8:30 AM
Sponsored by ACI Committee E803, Faculty Network Coordinating Committee

Session Moderator: Kenneth C. Hover
Professor of Structural Engineering
Cornell University
Ithaca, NY

Ken Hover, Professor and Weiss Presidential Fellow at Cornell University, will discuss how your ACI audience wants to hear what you have to say, and to see what you have to show. But while you can count on initial audience interest, you can’t assume that everyone in the room sees your story, your problem, or your solution the same way you do. Given the wide range of backgrounds and expectations in the typical ACI audience, part of your challenge is to provide enough “handles” on your topic so that almost everybody can not only grab on, but carry something away. A continental breakfast will be served.

✓ = Separate fee required
Student Lunch  
12:00 PM - 2:00 PM  
$25 U.S. per person; FREE to students who preregister  
Sponsored by the ACI Missouri Chapter and ACI Committee E801, Student Activities

**Speaker:** Daniel Baker  
President  
Baker Concrete Construction Inc.  
Monroe, OH

**Topic: Leadership 20/20—Up and Coming Leaders**

Join other ACI members and students for the announcement of the Student Competition results. Following lunch, featured speaker Dan Baker, President of Baker Concrete Construction will give a presentation on Leadership 20/20—Up and Coming Leaders.

**PREREGISTRATION IS REQUIRED TO ATTEND. Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.**

Sonic Systems for Concrete Testing Demonstration  
2:00 PM - 3:00 PM  
Germann Instruments will be demonstrating the following:

- DOCter impact-echo for thickness and flaw detection
- s'MASH impulse response for rapid screening of flaws
- MIRA tomography 3D system for location of internal defects

Women in ACI Reception  
5:00 PM - 6:00 PM

All registered convention attendees are invited to attend the Women in ACI Reception. This long-standing ACI tradition is a great opportunity to get to know other women in the concrete industry through networking and socializing. A hosted bar and light hors d’oeuvres will be served.

✓ = Separate fee required
University of Texas Reception  
6:30 PM - 8:00 PM  

The Civil, Architectural & Environmental Engineering Department at the University of Texas is holding a reception for graduates, faculty, and friends. Catch up with former classmates, and colleagues following a day of meetings over appetizers and cocktails from the cash bar.

✔ Dinner in Honor of Luke M. Snell  
7:00 PM - 10:00 PM  
$75 U.S. per person

Over the course of 40 years, Luke Snell has been a driving force within the concrete industry. Named a Fellow of ACI, a Distinguished Professor of Arizona State University, and a professional engineer in three states, his concrete research and teaching experience has been influential to many. Join other ACI attendees in celebrating Luke Snell’s life-long achievements and strong dedication to ACI and the ACI Missouri Chapter during this honorary dinner.

Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.

✔ = Separate fee required
Following its long tradition, ACI Committee 123 brings industry experts together again to debate on another subject and to share their views with ACI patrons. The debate this time is whether sustainability should be policy driven. Sustainable materials and construction have received considerable attention during the last several years and significant accomplishments have been made. However, is our progress keeping pace with the ever growing needs of a sustainable development? Do we realize the importance of sustainable development? Are we adequately addressing environmental concerns related to the production of portland cement and depleting natural raw resources? Are we making the best use of supplementary cementitious materials? Are we exploring innovative aggregate types? Are we using nonpotable water sources for making and curing concrete? Are we improving the performance of substandard raw materials through innovative uses of chemical admixtures? If the answer to any or all of these questions is no, should sustainability be mandated and policy driven? Our panelists will address these and many other questions you might have.
Tuesday, November 4, 2008

Holcim Plant Tour
7:00 AM - 2:00 PM
$45 U.S. per person

Enjoy a tour of the Holcim Cement Plant. Opening in 2009, the Holcim Cement Plant is soon to be one of the largest producers of portland cement, estimated to produce over 4,000,000 metric tons of cement a year. No shorts are allowed on this tour, shirts/blouses with sleeves must be at least four inches in length, and you must wear closed-toe shoes. No high heels are allowed. A 20-minute safety video must be viewed before the tour begins. This tour includes a boxed breakfast. Departure for this tour will be located at the St. Charles Street exit at the Renaissance Grand.

Contractors’ Day Events

Architectural Walking Tour
Depart: 9:30 AM from the AIA Bookstore (911 Washington Avenue);
Return: 11:30 AM
$8 U.S. per person

This 90-minute walking tour begins with a walk down Washington Avenue, through the historical loft district, and past the Merchandise Mart, The Roberts Orpheum Theater Building, and The Old Post Office. Other notable sites on this tour include The Chemical Building, The Union Trust Company, The Wainwright Building, and The Old Courthouse. Comfortable walking shoes are recommended.

✓ = Separate fee required
Contractors’ Day Lunch
12:00 PM - 2:00 PM
$35 U.S. per person
Hosted by the ACI Missouri Chapter and the ACI Construction Liaison Committee

Speaker: Jeff Steinhart
Vice President of Engineering
Anheuser-Busch
St. Louis, MO

Topic: Innovation in the Construction Industry
Join other ACI convention attendees for the Contractors’ Day Lunch. The featured speaker will be Jeff Steinhart, Vice President of Engineering for Anheuser-Busch. Jeff Steinhart is responsible for leading the Engineering and Environmental Affairs department for the company’s domestic and international beer operations and the major capital projects for its subsidiaries.

Steinhart will be discussing innovation in the construction industry and will cover topics such as:
- Background on Anheuser-Busch
- The Roles of the Owner and Contractor
- A-B’s Expectation of the Contractor Community
- Lessons Learned on Concrete
- Innovations in A/C/S
- Trends we need to be able to address

Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.
Concrete Structures of St. Louis Bus Tour
Depart: 2:30 PM from the AIA Bookstore (911 Washington Avenue);
Return: 4:30 PM
$20 U.S. per person
This narrated bus tour will take guests past the James Eads Bridge, Jefferson Memorial Expansion Site, The Gateway Arch, and The Old Courthouse, to name a few. In addition to the narrated bus tour, guests will also have the opportunity to take a short 10-minute walk through the City Museum, get a private 30-minute viewing of the Pulitzer, and exit the bus briefly to view the Eads Bridge.

Building the Arch Film “Monument to the Dream”
3:30 PM
C-100
A film documenting the construction of the arch will be shown.

Faculty Network Reception
5:00 PM - 6:00 PM
R-PARKVIEW
Hosted by ACI Committee E802, Faculty Network Coordinating Committee
Faculty members and students are invited to attend this informal reception for an opportunity to exchange ideas and network. Light hors d’oeuvres will be available. Each attendee will receive one drink ticket upon arrival at the reception.

Concrete Mixer: Echoes of Oktoberfest
6:30 PM - 8:00 PM
R-MAJESTIC
Sponsored by the ACI Missouri Chapter
Transport yourself back to nineteenth century Germany for an Oktoberfest-inspired Concrete Mixer. Hosted by the ACI Missouri Chapter, you will feel as though you’re inside a festival hall in Munich, with long tables and benches, waitstaff in lederhosen, and an authentic Bavarian-style band. This social event is perfect for meeting industry leaders and reconnecting with friends and colleagues.
Please use the drink tickets found in your convention registration packet for this event.

= Separate fee required
Tours and Guest Events

All tours (except the Architectural Walking Tour & Concrete Structures Bus Tour) will depart from the Renaissance Grand, St. Charles Street exit.

The Architectural Walking Tour & Concrete Structures Bus Tour will depart from the AIA Bookstore located at 911 Washington Avenue.

Sunday-Wednesday
Guest Hospitality—open to individuals who are registered for the guest program ONLY.

Continental Breakfast 7:00 AM-10:00 AM  R-AN AMERICAN PLACE
Guest Suite open 10:00 AM-5:00 PM  R-434

Sunday, November 2, 2008

Guest Overview  R- AN AMERICAN PLACE
8:00 AM - 9:00 AM
Acquaint yourself with the week ahead! You’ll also get a preview of the guest programs for the ACI Spring 2009 Convention in San Antonio, TX, and the ACI Fall 2009 Convention in New Orleans, LA.

✓ Pere Marquette State Park
Depart: 9:30 AM; Return: 3:00 PM
$55 U.S. per person

Today you will ride along America’s newest scenic byway, the Great River Road, which stretches 50 miles through some of the most picturesque countryside along the Mississippi and Illinois rivers. Your destination is Pere Marquette State Park, named for Jacques Marquette, a French missionary and member of the European expedition led by Louis Joliet. In 1673, Marquette and Joliet traveled down the Mississippi River as far as the Arkansas River. A nature-lover’s paradise, this 8000-acre park is famous for the exceptional beauty of its fall colors and for its bald eagles during the winter.

Before lunch, visit Pere Marquette’s Visitor Center, which welcomes you with a three-dimensional map of the park, a gift shop and information center, a 270-gallon aquarium, and a wealth of other displays and exhibits of the Illinois River, wildlife habitat, local history, and geology.

For lunch, enjoy a scrumptious chicken entrée in the Lodge. Native stone and rustic timbers of the original Lodge blend with the new to provide first-class accommodations in a historical setting. The mammoth stone fireplace in the lobby soars to a roof height of 50 ft and is said to weigh 700 tons.

✓ = Separate fee required
Monday, November 3, 2008

✓ Gateway to St. Louis Tour
Depart: 8:00 AM; Return: 2:30 PM
$67 U.S. per person

Trace the history of St. Louis beginning with the city's original settlement, Laclede's Landing. It is now a nine-block historic district filled with renovated turn-of-the-century buildings, housing, shops, eateries, and offices. Next, visit the famous Gateway Arch, the nation's tallest monument, commemorating the gateway to the west for thousands of nineteenth century pioneers. Take a tram ride to the top of this 630 ft stainless steel architectural wonder. Those not wanting to ride the tram may enjoy "Monument to the Dream," a film documenting the construction of the Arch. This film will also be shown on Sunday and Tuesday at 3:30 PM in the exhibit area.

Next, visit the Old Cathedral, the oldest cathedral west of the Mississippi. Across the street is the Old Courthouse, the setting for cases involving slavery, the fur trade, and equal rights. The Dred Scott Case is the most notable. Continuing west on Market Street, you will pass several of St. Louis's civic buildings, plazas, and a museum en route to historic St. Louis Union Station. Once the busiest rail terminal in the world, the Grand Hall and Train Shed have been magnificently renovated to house specialty stores and festive markets. After a brief walking tour of the Station, there will be time for lunch and shopping. Guests on this tour will be provided with a Union Station food voucher for the food court or one of the many dine-in restaurants located in the station.

At the St. Louis Cathedral you will see one of the largest collections of mosaics in the world—84,000 square feet in 8000 shades of color! Explore the historic Central West End neighborhood, the Barnes-Jewish Hospital Complex, and the mansions bordering Forest Park—fine examples of the “Golden Age” of St. Louis at the turn of the century. Forest Park was also the site of the 1904 World’s Fair.

✓ = Separate fee required
Monday, November 3, 2008 (cont.)

✓ Frank Lloyd Wright House in Ebsworth Park
Depart: 9:00 AM; Return: 12:00 PM
$62 U.S. per person

On this tour, you will visit The Frank Lloyd Wright House in Ebsworth Park, located in Kirkwood, MO, and nestled in grassy fields on 10.5 acres of land. The home has been placed on the National Register of Historic Places because of its significance in American architecture. Here you will enjoy a private tour of the home and see up close the excellent examples of Wright’s democratic vision, intended to bring beautiful architecture to middle-class Americans at an affordable price. The house has retained all of its original Wright-designed furnishings and fabrics and is well noted for its architectural integrity. The house was built for Russell and Ruth Kraus in the 1950s. It was the architect’s first building in the St. Louis area and is now only one of five in the State of Missouri.

En route back to the Renaissance Grand you will tour through downtown St. Louis and see architectural wonders such as the Gateway Arch, the Wainwright Building, and Eads Bridge. Please note that the tour will return to the hotel in time for you to enjoy lunch on your own.

*This tour will also be offered again on Tuesday, November 4, 2008.*

Guest Tea

R-CRYSTAL
3:30 PM - 5:00 PM

Please join Mrs. Camila García for afternoon tea in the beautiful Crystal Ballroom. This is a wonderful opportunity to get to know other registered guests and enjoy a refreshing break! A guest name badge is required to attend this event.

Tuesday, November 4, 2008

✓ Frank Lloyd Wright House in Ebsworth Park
Depart: 9:00 AM; Return: 12:00 PM
$62 U.S. per person

See Monday, November 3, for tour description. Please note the tour will return to the hotel in time for you to enjoy lunch on your own.
Spirits of St. Louis Tour
Depart: 9:00 AM; Return: 3:00 PM
$79 U.S. per person

Enjoy nature at its finest at the Missouri Botanical Garden! The oldest botanical garden in the country and National Historic Landmark, the Garden has been internationally recognized for horticulture, education, and scientific research since its founding in 1859. It is truly a St. Louis treasure! A guided tram tour will wind its way through the 79 acres of flora and climates as diverse as the tropical rainforest and the driest desert. Visit the newly-renovated Climatron, the first geodesic dome greenhouse based on Buckminster Fuller’s futuristic design. Included is a visit to the 14-acre Japanese Garden, considered one of the finest outside of Japan. There will be time to explore your favorite areas on your own before or after lunch. A food voucher to the Garden restaurant, Sassafras, is included.

En route to the King of Beers—The Anheuser-Busch Brewery—your tour guide will familiarize you with the rich history of the colorful Busch family. Situated in a complex with over 70 red brick structures on 100 acres, the brewery buildings are known for their unique architecture, and several are National Historic Landmarks. During the tour, you will see the world famous Clydesdales, the Fermentation Building, the Packing and Bottling Plant, the Brew House, and a film about the brewing process. No visit would be complete without a stop at the hospitality room to sample the family of Busch products. Comfortable walking shoes are recommended for this tour.

= Separate fee required
Tours and Guest Events

All tours (except the Architectural Walking Tour & Concrete Structures Bus Tour) will depart from the Renaissance Grand, St. Charles Street exit.

Tuesday, November 4, 2008 (cont.)

✓ Architectural Walking Tour
Depart: 9:30 AM from the AIA Bookstore (911 Washington Avenue);
Return: 11:30 AM
$8 U.S. per person
This 90-minute walking tour begins with a walk down Washington Avenue; through the historical loft district, and past the Merchandise Mart, The Roberts Orpheum Theater Building, and The Old Post Office. Other notable sites on this tour include The Chemical Building, The Union Trust Company, The Wainwright Building, and The Old Courthouse. Comfortable walking shoes are recommended.

✓ Concrete Structures of St. Louis Bus Tour
Depart: 2:30 PM from the AIA Bookstore (911 Washington Avenue);
Return: 4:30 PM
$20 U.S. per person
This narrated bus tour will take guests past the James Eads Bridge, Jefferson Memorial Expansion Site, The Gateway Arch, and The Old Courthouse to name a few. In addition to the narrated bus tour, guests will also have the opportunity to take a short 10-minute walk through the City Museum, get a private 30-minute viewing of the Pulitzer, and exit the bus briefly to view the Eads Bridge.

✓ = Separate fee required

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Tours and Guest Events

All tours (except the Architectural Walking Tour & Concrete Structures Bus Tour) will depart from the Renaissance Grand, St. Charles Street exit.

Wednesday, November 5, 2008

✓ Rivertown Tour
Depart: 9:00 AM; Return: 1:30 PM
$56 U.S. per person

Upon departing, your tour guide will familiarize you with the rich history of St. Louis dating back to more than 1500 years ago, when St. Louis was a 20,000-person settlement known as Cahokia Mounds. En route you will receive a downtown overview including Laclede’s Landing, the Riverfront, and the Gateway Arch. You will pass the first church of St. Louis and the Old Courthouse, the setting of the Dred Scott Case.

Travel back in time as you visit the largest prehistoric Indian center in America. Cahokia Mounds is the site of the most sophisticated prehistoric civilization that occupied the Cahokia area from 700 to 1500 A.D. At its peak, the population reached 20,000 and, at some point, vanished before the Europeans arrived.

Designated a World Heritage site in 1982, today Cahokia Mounds is essential to our understanding of the history of North America. You will begin your visit at the Interpretive Center, where you will have the opportunity to climb the man-made earthen mounds and see a wooden sun calendar.

Next experience the “Mighty” Mississippi first-hand during a Gateway Riverboat cruise. You will board a replica paddle wheeler for a one-hour sightseeing cruise where you can take in the views of the dramatic St. Louis skyline. A boxed lunch is included with your cruise ticket.

✓ = Separate fee required

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Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

✓ = Separate fee required       * = Themed Session
R = Renaissance Grand        C = America’s Center        TG = Task Group

Friday, October 31, 2008

6:30 PM - 9:00 PM
TAC  Technical Activities M1  R-LANDMARK 5

Saturday, November 1, 2008

8:00 AM - 6:00 PM
TAC  Technical Activities M2  R-LANDMARK 5

12:00 PM - 6:00 PM
301 Specifications M1  R-MAJESTIC F & G

1:00 PM - 5:00 PM
EAC  Educational Activities M1  R-MAJESTIC B
376  RLG Containment Structures M1  R-MAJESTIC A

1:00 PM - 6:00 PM
Sustainable Development Workshop on Concrete, Green Building, and ISO Standards

6:30 PM - 10:30 PM
✓ Dining and Dancing on the Mississippi

7:30 PM - 10:00 PM
347-A Formwork—Specification  R-MAJESTIC C

Sunday, November 2, 2008

7:00 AM - 8:00 AM
First-Time Convention Attendee Breakfast  R-MAJESTIC B

7:30 AM - 12:30 PM
✓ Holcim Plant Tour

8:00 AM - 9:00 AM
562-Co Repair & Rehab—Coordination Meeting  C-222
First-Time Convention Attendee Breakfast  R-MAJESTIC B

8:00 AM - 9:30 AM
341-D Equake Res Brdgs—Perf Based Seismic Design  C-232

8:00 AM - 10:00 AM
E 706 Repair Application Procedures  R-PORTLAND
E 801 Student Activities  R-WESTMORELAND
## Daily Program

All schedule and location changes will be posted daily in **C-100-105** and **R-Lobby**.

- ✓ = Separate fee required
- * = Themed Session
- **R** = Renaissance Grand
- **C** = America’s Center
- **TG** = Task Group

### Sunday, November 2, 2008 (cont.)

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<tr>
<td>440-M</td>
<td>FRP—Repair of Masonry Str</td>
<td>R-LANDMARK 4</td>
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<td>445-B</td>
<td>Shear &amp; Torsn—Seismic Shear</td>
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<td>551</td>
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<td>8:00 AM - 2:00 PM</td>
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<tr>
<td>TAC</td>
<td>Technical Activities M3</td>
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<td>8:30 AM - 9:30 AM</td>
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<tr>
<td>546-A</td>
<td>Repair—Underwater</td>
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<td>342</td>
<td>Bridge Evaluation</td>
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<td>373</td>
<td>Prestressed/Tendons</td>
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<td>8:30 AM - 10:30 AM</td>
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<tr>
<td>549-A</td>
<td>Thin Reinforced—Premix GFRC</td>
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<td>8:30 AM - 11:30 AM</td>
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<td>CLC</td>
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<td>MEMC</td>
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<td>Detailing—Constructibility</td>
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<td>Development and Splicing of Deformed Bars</td>
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<td>Simplified Design of Buildings</td>
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<td>347</td>
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<td>301</td>
<td>Specifications M2</td>
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<td>9:00 AM - 12:00 PM</td>
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<tr>
<td>562-A</td>
<td>Eval, Repair, and Rehab—Life Safety</td>
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<td>562-F</td>
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<td>9:00 AM - 5:00 PM</td>
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<tr>
<td>376</td>
<td>RLG Containment Structures M2</td>
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Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

✓ = Separate fee required  * = Themed Session
R = Renaissance Grand  C = America’s Center  TG = Task Group

Sunday, November 2, 2008 (cont.)

9:30 AM - 10:30 AM
546-B  Repair—Material Selection Guide  R-PARKVIEW

9:30 AM - 11:00 AM
341-A  Equake Res Brdgs—Columns  C-232
506-A  Shotcreting—Evaluation  R-LAFAYETTE

9:30 AM - 11:30 AM
201-C  Durability—Condition Report  R-MAJESTIC B

9:30 AM - 3:00 PM
✓ Pere Marquette State Park

10:00 AM - 11:30 AM
E 701  Materials for Concrete Construction  R-PORTLAND
IC-Part: International Partnerships Committee  R-BENTON
350-C  Env Str—Reinf and Devel  R-LENNOX

10:00 AM - 1:00 PM
546-C  Repair—Guide  R-PARKVIEW

10:30 AM - 1:30 PM
445-A  Shear and Torsn—Strut & Tie  R-KINGSBURY

10:30 AM - 2:00 PM
549  Thin Reinforced  C-231

11:00 AM - 12:30 PM
341-B  Equake Res Brdgs—Pier Walls  C-232
506-G  Shotcreting—Qualifications  R-LAFAYETTE

11:00 AM - 1:00 PM
440-K  FRP—Material Characteristics  R-LANDMARK 4
Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

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Sunday, November 2, 2008 (cont.)

11:30 AM - 1:00 PM
HTC Hot Topic  R-BENTON
221 Aggregates  R-MAJESTIC B
335 Composite Hybrid  R-PORTLAND
350-SC Env Str—Steering Comm  R-LENNOX

12:00 PM - 2:00 PM
✓ International Lunch  R-CRYSTAL

1:00 PM - 2:30 PM
440-D FRP—Research and Dev.  R-LANDMARK 4

1:00 PM - 3:00 PM
IC-Mem International—Membership  R-PARKVIEW
345 Bridge Construction  R-LUCAS
445-C Shear and Torsn—Punching Shear  R-FORSYTH

1:00 PM - 4:00 PM
BAC-SD Board Advisory Committee on Sustainable Dev.  C-222

1:00 PM - 5:00 PM
305 Hot Weather  R-MAJESTIC B
336 Footings  R-SHAW
350-E Env Str—Precast/Prestressed  R-RATHSKELLER
355 Anchorage  R-LANDMARK 1

1:30 PM - 3:00 PM
ASCC Foundation Meeting  R-WESTMORELAND
ISO/TC 71 ISO/TC 71 Advisory  R-FLORA
341-C Equake Res Brdgs—Retrofit  C-232
506-B Shotcreting—Fiber Reinforced  R-LAFAYETTE

1:30 PM - 3:30 PM
370 Dynamic and Vibratory Effects  R-BENTON

1:30 PM - 5:00 PM
562 Eval, Repair, and Rehab  R-LANDMARK 2

2:00 PM - 3:00 PM
548-TG Polymers—TG  R-KINGSBURY
Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

✓ = Separate fee required      * = Themed Session
R = Renaissance Grand      C = America's Center      TG = Task Group

Sunday, November 2, 2008 (cont.)

2:00 PM - 3:30 PM
209-A  Creep & Shrinkage—Statistics Procedures  C-91
236-B  Material Science—Permeation Methods  R-LENNOX

2:00 PM - 4:00 PM
215  Fatigue  R-MAJESTIC A

2:00 PM - 5:00 PM
RCC  Responsibility  R-WESTMINSTER
309  Consolidation  R-HAWTHORNE
315  Detailing  R-PORLAND
352  Joints  R-MAJESTIC G

2:00 PM - 5:00 PM Sessions
Designing and Constructing Durable Long-Life Concrete Pavements, Part 1  C-240
Concrete Bridge Design for Extreme Events  C-230
IPS-1 Update Summary and Applications for RC Buildings  C-225
Emerging Technologies in Civil Infrastructure Applications  C-224
Uplifting Concrete in Churches, Museums, and Civic Architecture  C-223

2:30 PM - 5:00 PM
224  Cracking  R-AUBERT
440-F  FRP—Repair Strengthening  R-LANDMARK 4

3:00 PM - 5:00 PM
E 601  Seminar Oversight Committee  R-LUCAS
236-D  Material Science—Nanotechnology of Concrete M1  R-WESTMORELAND
341  Earthquake-Resistant Bridges  C-232
423/445  Adhoc Grp on Shear in Prestress Conc  R-LAFAYETTE

3:30 PM - 4:00 PM
“Monument to the Dream” building of the Arch film  C-100-105
Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

✓ = Separate fee required    * = Themed Session
R = Renaissance Grand    C = America’s Center    TG = Task Group

Sunday, November 2, 2008 (cont.)

3:30 PM - 5:00 PM
IC-Cert International—Certification R-PARKVIEW
121 Quality Assurance R-LANDMARK 3
201-A Durability—Sulfate Attack R-BENTON
439-A Steel Reinf—Wire R-KINGSBURY
445-E Shear and Torsn—SOA Torsion R-FORSYTH

4:00 PM - 5:00 PM
CLGE Collegiate Concrete Council R-LANDMARK 6
123 Research and Current Developments R-MAJESTIC A

5:15 PM - 6:30 PM
Opening Session and Hardy Cross Lecture Series C-221

6:30 PM - 7:30 PM
Opening Reception C-100-105

6:30 PM - 9:30 PM
ITG-7 Specification for Tolerances for Precast Concrete R-LAFAYETTE

7:30 PM - 10:00 PM
Hot Topic Session: Renewal of Bridge Infrastructure: C-240
Inspection Maintenance and Security Upgrades

Monday, November 3, 2008

6:30 AM - 8:15 AM
Workshop for Technical Committee Chairs C-221

7:00 AM - 8:30 AM
IC-Conf International—Conferences R-LENNOX
Speaker Skills Training Breakfast: C-232
Teaching Methods and Educational Materials

8:00 AM - 9:30 AM
C 650 Tilt-Up Constructor Cert C-91

8:00 AM - 2:30 PM
✓ Gateway to St. Louis

8:15 AM - 10:15 AM
440-G FRP—Student C-242
Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

✓ = Separate fee required   * = Themed Session
R = Renaissance Grand   C = America’s Center   TG = Task Group

Monday, November 3, 2008 (cont.)

8:30 AM - 10:00 AM
E 802 Teaching Methods and Educational Materials  R-MAJESTIC H
118 Computers  R-LUCAS
124 Aesthetics  R-LENNOX
439 Steel Reinforcement  R-HAWTHORNE
506-C Shotcreting—Guide  R-LACLEDE
523-A Cellular—Autoclaved Aerated  R-MAJESTIC B
524 Plastering  R-KINGSBURY
544-B FRC—Education  C-241

8:30 AM - 10:30 AM
PUBC Publications  R-PORTLAND
238 Workability of Fresh Concrete  R-LANDMARK 4

8:30 AM - 11:30 AM
C 610 Field Technician Cert  C-222
209 Creep and Shrinkage  R-AUBERT
311 Inspection  C-231
318-R Code Reorganization M1  R-LANDMARK 5
350-G&K Env Str—Tightness Testing/Haz Mat  R-SHAW
351-A Equip Fdns—Static Fdns  R-LANDMARK 6
437 Strength Evaluation  R-MAJESTIC F
543 Piles  R-LANDMARK 3
546 Repair  R-LANDMARK 1
548-A Polymers—Overlays  R-RATHSKELLER

8:30 AM - 12:00 PM
355-TG Anchorage TG  R-MAJESTIC A
362-A Parking Str—Standard  R-WESTMINSTER

8:30 AM - 12:30 PM
374 Seismic Design  R-LANDMARK 7

8:30 AM - 1:00 PM
302 Floor Construction  C-227
350-B Env Str—Durability  R-WESTMORELAND

8:30 AM - 6:30 PM
301 Specifications M3  C-232
350-D Env Str—Structural  R-LANDMARK 2
Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

✓ = Separate fee required    * = Themed Session
R = Renaissance Grand    C = America’s Center    TG = Task Group

Monday, November 3, 2008 (cont.)

9:00 AM - 10:00 AM
343-A  Design  R-FLORA
343-B  Bridge Deck Design  R-FORSYTH

9:00 AM - 12:00 PM
✓ Frank Lloyd Wright House

9:00 AM - 12:00 PM Sessions

Research in Progress  C-223
Recent Advancements in Concrete Technology  C-224
in Taiwan
ACI Student Fellowships and Young Member Initiatives  C-225
Session Honoring Professor David Darwin, Part 1  C-230
Designing and Constructing Durable Long-Life Concrete Pavements, Part 2  C-240

9:00 AM - 1:00 PM
365  Service Life  C-226
423  Prestressed  R-MAJESTIC G

9:00 AM - 2:00 PM
376-TG  RLG Containment Structures TG M1  R-MAJESTIC C

10:00 AM - 11:30 AM
E 804  Educational Awards Nomination Committee  R-LUCAS

10:00 AM - 12:00 PM
445-D  Shear and Torsion—Database  R-FORSYTH

10:00 AM - 12:30 PM
506-E  Shotcreting—Specifications  R-LACLEDE

10:00 AM - 1:00 PM
207  Mass Concrete  R-LENNOX
216  Fire Resistance  R-HAWTHORNE
232-A  Fly Ash—Use of Nat Pozzolans  R-FLORA
343  Bridge Design  R-MAJESTIC H
523  Cellular Concrete  R-MAJESTIC B

10:15 AM - 12:30 PM
440-I  FRP—Prestressed Concrete  C-242
Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

✓ = Separate fee required  *

R = Renaissance Grand  C = America’s Center  TG = Task Group

Monday, November 3, 2008 (cont.)

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<td>304 Measuring/Mix/Trans/Placing</td>
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<td>346 CIP Pipe</td>
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<td></td>
<td>544-A FRC—Production and Applications</td>
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<td>548-C Polymers—Str Design and Analysis</td>
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<td>11:30 AM - 2:00 PM</td>
<td>364-A Rehabilitation—Evaluation</td>
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<td>447 Finite Element Analysis</td>
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<td>552 Cementitious Grouting</td>
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<td>12:00 PM - 1:00 PM</td>
<td>Media Lunch</td>
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<td>12:00 PM - 2:00 PM</td>
<td>351-B Equip Foundations—Equip Machinery</td>
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<td>444 Experimental Analysis</td>
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<td>1:00 PM - 2:30 PM</td>
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<td>228-TG Nondestructive Testing TG</td>
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<td>548-B Polymers—Sulfur Concrete</td>
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<td>1:00 PM - 3:00 PM</td>
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<td>362 Parking Structures</td>
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<td>1:30 PM - 4:30 PM</td>
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<td>2:00 PM - 3:00 PM</td>
<td>Sonic Systems for Concrete Testing Demonstration</td>
<td>C-100</td>
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<td>Convention Session Moderator</td>
<td>R-LANDMARK 5</td>
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<td>Questions and Answer</td>
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Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

✓ = Separate fee required      * = Themed Session
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Monday, November 3, 2008 (cont.)

2:00 PM - 3:30 PM
ACI 318/ACI 318-ASCE 7 Coordination R-LANDMARK 3
ASCE7
231 Early Age R-LANDMARK 7
318-S Spanish Translation R-KINGSBURY
544-E FRC—Mechanical Properties C-222

2:00 PM - 4:00 PM
ITG-6 High-Strength Steel Reinforcement R-PORTLAND

2:00 PM - 5:00 PM
MKTC Marketing R-MAJESTIC C
232 Fly Ash and Natural Pozzolans C-241
327 RCC Pavements R-LUCAS
349-C Nuclear Str—Anchorage R-MAJESTIC A
351 Equipment Foundations R-LANDMARK 6
364 Rehabilitation C-231
365-A Service Life—Std Model Development C-226
375 Design for Wind Loads R-LENNOX

2:00 PM - 5:00 PM Sessions
Session Honoring Professor David Darwin, Part 2 C-230
Use of Technology with Teaching C-223
Evaluation of Existing Structures by Means of C-224
In-Situ-Load Testing and Structural Monitoring
Accelerated Bridge Design and Construction C-225
Recent Advances in Precast Concrete Pavements C-240

2:00 PM - 6:00 PM
369 Seismic Rehab R-MAJESTIC B
445 Shear and Torsion R-HAWTHORNE

2:00 PM - 6:30 PM
212 Chemical Admixtures R-WESTMINSTER
360 Slabs-on-Ground C-227

2:30 PM - 4:00 PM
533 Precast Panels R-RATHSKELLER

2:30 PM - 5:00 PM
CAC Chapter Activities R-MAJESTIC F
### Daily Program

All schedule and location changes will be posted daily in **C-100-105** and **R-Lobby**.

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<tr>
<th>Time</th>
<th>Session Description</th>
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<tr>
<td>3:00 PM - 4:30 PM</td>
<td>C 601-C Masonry Testing Technician</td>
<td>R-WESTMORELAND</td>
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<td>3:00 PM - 5:00 PM</td>
<td>130 Sustainability of Concrete</td>
<td>R-LANDMARK 5</td>
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<td>506-F Shotcreting—Underground</td>
<td>R-LACLEDE</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Guest Tea</td>
<td>R-CRYSTAL</td>
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<td>IC-Pub International—Pubs/Web site</td>
<td>R-SHAW</td>
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<td>122 Thermal Properties</td>
<td>R-FORSYTH</td>
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<td>214 Strength Tests</td>
<td>R-LANDMARK 7</td>
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<td>318-L International Liaison</td>
<td>R-KINGSBURY</td>
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<td>3:30 PM - 5:30 PM</td>
<td>446 Fracture Mechanics</td>
<td>R-LANDMARK 3</td>
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<td>3:30 PM - 6:00 PM</td>
<td>544-D FRC—Structural Uses</td>
<td>C-222</td>
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<tr>
<td>3:30 PM - 6:30 PM</td>
<td>435 Deflection</td>
<td>R-FLORA</td>
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<td>4:00 PM - 5:30 PM</td>
<td>236 Material Science</td>
<td>R-MAJESTIC G</td>
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<td>4:30 PM - 6:00 PM</td>
<td>440-J FRP—Stay-in-Place Forms</td>
<td>C-242</td>
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<td>5:00 PM - 6:00 PM</td>
<td>Women in ACI Reception</td>
<td>R-AUBERT</td>
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<td>5:00 PM - 6:30 PM</td>
<td>E 702 Designing Concrete Structures</td>
<td>R-MAJESTIC F</td>
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<td>ITG-5 Precast Shear Walls for High Seismic Applications</td>
<td>R-MAJESTIC C</td>
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<td>334 Shells</td>
<td>R-LENNOX</td>
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<td>350-J Env Str—Education</td>
<td>R-FORSYTH</td>
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<td>555 Recycled</td>
<td>R-MAJESTIC A</td>
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<td>5:00 PM - 7:00 PM</td>
<td>E 703 Concrete Construction Practices</td>
<td>R-MAJESTIC H</td>
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</table>
Daily Program

All schedule and location changes will be posted daily in C-100-105 and R-Lobby.

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Monday, November 3, 2008 (cont.)

6:00 PM - 7:30 PM
TAC-Code  TAC Codes Committee  R-WESTMORELAND

6:30 PM - 8:00 PM
University of Texas Alumni Reception  R-LANDMARK 1

7:00 PM - 8:30 PM
ACI/ASC  ACI/ASCC Finisher Summit  R-LANDMARK 5

7:00 PM - 10:00 PM
✓ Dinner in Honor of Luke M. Snell  R-CRYSTAL

7:30 PM - 10:00 PM
123 Forum: Should Sustainability be Policy Driven?  R-LANDMARK 2 & 3

Tuesday, November 4, 2008

7:00 AM - 8:30 AM
TTTC  TAC Technology Transfer  R-MAJESTIC H

7:00 AM - 12:00 PM
✓ Holcim Plant Tour

8:00 AM - 9:30 AM
440-E  FRP—Prof Education  R-LANDMARK 5

8:00 AM - 10:00 AM
230  Soil Cement  R-AUBERT

8:00 AM - 11:00 AM
332 B&C  Residential Concrete—Sub B & C  R-LANDMARK 1
332 D&E  Residential Concrete—Sub D & E  R-MAJESTIC B

8:00 AM - 12:00 PM
EAC  Educational Activities M2  R-PORTLAND

8:30 AM - 10:00 AM
C 620  Laboratory Tech Cert  R-BENTON
225  Hydraulic Cements  R-LUCAS
325-A  Pavements—Design  R-MAJESTIC A
348  Safety  R-FLORA
548  Polymers  R-HAWTHORNE
Daily Program

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Tuesday, November 4, 2008 (cont.)

8:30 AM - 10:30 AM
IJBRC International Joints and Bearings R-LANDMARK 6
Research Council

8:30 AM - 11:30 AM
201 Durability C-231 & 232
306 Cold Weather R-KINGSBURY
318 Building Code M1 R-LANDMARK 4
357 Offshore and Marine R-MAJESTIC F
506 Shotcreting C-242
522 Pervious Concrete R-WESTMORELAND

8:30 AM - 12:00 PM
117 Tolerances R-MAJESTIC C

8:30 AM - 12:30 PM
349-A&B Nuclear Structures—Design and Materials R-MAJESTIC H

8:30 AM - 3:30 PM
350-F Env Str—Seismic R-PARKVIEW

9:00 AM - 12:00 PM
IC International Committee C-222
TRRC TAC Repair and Rehab R-LANDMARK 2
376-TG RLG Containment Structures TG M2 R-MAJESTIC G

9:00 AM - 12:00 PM
✓ Frank Lloyd Wright House

9:00 AM - 12:00 PM Sessions
Industry Acceptance of SCC C-223
Innovative Bridge Decks C-224
Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 1 C-225
Realistic Data for Realistic Expectations C-230
Advances in the Fire Design of Concrete Structures C-240
Slag Cement Concrete Developments C-241

9:00 AM - 1:00 PM
ITG-8 Performance Criteria for Concrete Materials R-LANDMARK 3
Daily Program

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TG = Task Group

Tuesday, November 4, 2008 (cont.)

9:00 AM - 3:00 PM
✓ Spirits of St. Louis

9:30 AM - 11:00 AM
✓ Architectural Walking Tour
departs 911 Washington Avenue

9:30 AM - 11:30 AM
440-L FRP—Durability
R-LANDMARK 5

10:00 AM - 11:30 AM
C 630 Construction Inspector Cert
325-C Pavements—Prestressed and Precast
R-BENTON
R-MAJESTIC A

10:00 AM - 12:00 PM
211-A Proportioning—Editorial
236-D Material Science—Nanotechnology of Concrete M2
503 Adhesives
R-FLORA
R-LANDMARK 7
R-HAWTHORNE

10:00 AM - 1:00 PM
371 Elevated Water Tanks with Concrete Pedestals
C-91

10:30 AM - 12:00 PM
544-F FRC—Durability
C-227

11:00 AM - 2:00 PM
332-F Residential Concrete—Slabs
R-MAJESTIC B

11:30 AM - 1:00 PM
CRC Concrete Research Council
211-E Proportioning—Evaluation
213-TG Lightweight—Editorial TG
R-MAJESTIC A
R-LUCAS
R-KINGSBURY

11:30 AM - 2:00 PM
515 Protective Systems
R-AUBERT

11:30 AM - 3:30 PM
350-A Env Str—General and Concrete
R-BENTON
Daily Program

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Tuesday, November 4, 2008 (cont.)

12:00 PM - 1:00 PM
223-D Shrinkage Compensating—Nonreinforced Concrete or Mortar C-222

12:00 PM - 2:00 PM
✓ Contractors’ Day Lunch C-221

12:30 PM - 2:00 PM
C 640 Craftsman Cert R-WESTMORELAND

1:00 PM - 2:00 PM
223-C Shrinkage Compensating—Practitioner Guide C-222

1:00 PM - 3:30 PM
550 Precast Structures C-121

1:00 PM - 4:00 PM
440 Fiber Reinforced Polymer Reinforcement C-231 & 232

1:30 PM - 3:00 PM
120 History R-LENNOX

1:30 PM - 4:30 PM
213 Lightweight R-KINGSBURY

2:00 PM - 3:30 PM
234 Silica Fume C-227
325-D Proportioning for Pavements R-LANDMARK 3
544-C FRC—Testing C-120

2:00 PM - 5:00 PM
CPC Certification Programs C-226
222 Corrosion R-HAWTHORNE
223 Shrinkage Compensating C-222
229 Controlled Low-Strength R-LANDMARK 5
235 Electronic Data Exchange R-LUCAS
310 Decorative Concrete R-LANDMARK 7
332 Residential Concrete R-LANDMARK 4
349 Nuclear Structures C-122
563 Specs Repair of Struct Concrete in Buildings C-242
Daily Program

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Tuesday, November 4, 2008 (cont.)

2:00 PM - 5:00 PM Sessions
Recent Advances in Torsion Design of Structural Concrete C-241
Open Paper Session C-223
Contractors’ Day Session: Concrete Construction Tolerances: Safety, Achievability and Clarity C-224
Design and Construction of Elevated Concrete Pedestal Tanks C-230
Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 2 C-225
Seismic Design and Detailing of Bridge Protection Systems C-240

2:00 PM - 6:00 PM
233  Ground Slag R-WESTMORELAND

2:00 PM - 6:30 PM
318-A  General Concrete Constr R-AUBERT
318-C  Serviceability/Safety R-PORTLAND
318-H  Seismic Provision R-LANDMARK 2
318-R  Code Reorganization M2 R-LANDMARK 1

2:30 PM - 4:30 PM
✓ Concrete Structures Bus Tour –
departs 911 Washington Avenue

2:30 PM - 5:30 PM
TTCC  TAC Tolerances Coord. Comm. R-FLORA

3:00 PM - 5:00 PM
CC  Convention Committee M2 R-LANDMARK 6
372  Prestressed/Wire Wrapped C-91

3:30 PM - 4:00 PM
“Monument to the Dream” building of the Arch film C-100

3:30 PM - 5:00 PM
363-A  High-Strength—State-of-the-Art Report C-92

3:30 PM - 6:00 PM
544  Fiber Reinforced Concrete C-120
Daily Program

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Tuesday, November 4, 2008 (cont.)

3:30 PM - 6:30 PM
325 Pavements
350-L Env Str—Specification

4:00 PM - 5:00 PM
E 803 Faculty Network Coordinating

4:30 PM - 6:30 PM
308/213 Guide on Internal Curing

5:00 PM - 6:00 PM
Faculty Network Reception

6:30 PM - 8:00 PM
Concrete Mixer

Wednesday, November 5, 2008

7:00 AM - 8:30 AM
ACYM Advisory Committee for Young Members
ACI/ASCE ACI/ASCE Coordination

7:00 AM - 10:00 AM
TSC TAC Specifications

8:00 AM - 10:30 AM
308-B Curing—Specifications

8:30 AM - 9:30 PM
318-D,E&G 318 Subcommittees D, E & G

8:30 AM - 11:30 AM
211 Proportioning
303 Architectural CIP
330-TG Parking Lots and Site Paving TG
363 High-Strength
560 Design & Constr ICFs

8:30 AM - 1:00 PM
318-B Reinforcement and Development
## Daily Program

All schedule and location changes will be posted daily in **C-100-105** and **R-Lobby**.

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- * = Themed Session

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<th>Session</th>
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<td>8:30 AM - 5:00 PM</td>
<td>359 Nuclear Reactors</td>
<td>C-226</td>
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<tr>
<td>8:30 AM - 6:30 PM</td>
<td>350 Environmental Structures</td>
<td>C-227</td>
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<tr>
<td>9:00 AM - 12:00 PM</td>
<td>359 ACIFdn ACI Foundation</td>
<td>R-PORTLAND</td>
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<td>9:00 AM - 12:00 PM</td>
<td>Sessions</td>
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<td>Use and Misuse of ACI Documents</td>
<td>C-223</td>
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<td>Adhesive Anchors: Their Importance in the Construction of Concrete Structures</td>
<td>C-224</td>
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<td>People Who Made a Difference in Concrete</td>
<td>C-225</td>
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<td></td>
<td>*The Spirit of Structural Concrete in Performance-Based Seismic Design of Bridges, Part 1</td>
<td>C-230</td>
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<td>9:00 AM - 1:30 PM</td>
<td>Rivertown Tour</td>
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<td>9:00 AM - 5:00 PM</td>
<td>376-Rivertown Tour</td>
<td>C-240</td>
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<td>9:30 AM - 1:00 PM</td>
<td>318-D Flexure and Axial Loads</td>
<td>C-229</td>
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<td>318-E Shear and Torsion</td>
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<td>318-G Prestressed Precast</td>
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<td>10:00 AM - 12:30 PM</td>
<td>306-C 601-B Certified Quality Technical Mgr</td>
<td>C-231</td>
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<td>10:30 AM - 1:00 PM</td>
<td>308-Curing—Guide</td>
<td>C-220</td>
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<td>11:30 AM - 1:00 PM</td>
<td>330-D Decorative Concrete Finisher</td>
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<td>1:00 PM - 4:00 PM</td>
<td>330 Parking Lots and Site Paving</td>
<td>C-228</td>
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Wednesday, November 5, 2008 (cont.)

2:00 PM - 5:00 PM
308  Curing  C-231

2:00 PM - 5:00 PM Sessions

Early Age Test Methods for Performance Specifications  C-224
Shotcrete Construction  C-225
Advances in Fiber Reinforced Concrete—  C-223
A Tribute to Gordon Batson
*The Spirit of Structural Concrete in Performance-Based Seismic Design of Bridges, Part 2  C-230

2:00 PM - 6:30 PM
318  Building Code M2  C-242

Thursday, November 6, 2008

8:00 AM - 5:00 PM
✓ACI/PCA 318-08 Building Code Seminar  R-LANDMARK 3

9:00 AM - 5:00 PM
376-TG  RLG Containment Structures TG M4  R-WESTMINSTER

10:00 AM - 5:00 PM
BOD  Board of Direction  R-PORTLAND/BENTON
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<th>Code</th>
<th>Committee</th>
<th>Day</th>
<th>Time</th>
<th>Room Name</th>
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<tr>
<td>ACI/ASC</td>
<td>ACI/ASCC Finisher Summit</td>
<td>Mon</td>
<td>7:00 PM-8:30 PM</td>
<td>R-LANDMARK 5</td>
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<tr>
<td>ACI 318/ASCE7</td>
<td>ACI 318/ASCE7 Coordination</td>
<td>Mon</td>
<td>2:00 PM-3:30 PM</td>
<td>R-LANDMARK 3</td>
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<td>ACI/ASCE</td>
<td>ACI/ASCE Coordination</td>
<td>Wed</td>
<td>7:00 AM-8:30 AM</td>
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<tr>
<td>ACIFdn</td>
<td>ACI Foundation</td>
<td>Wed</td>
<td>9:00 AM-12:00 PM</td>
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<td>ACYM</td>
<td>Advisory Committee for Young Members</td>
<td>Wed</td>
<td>7:00 AM-8:30 AM</td>
<td>C-241</td>
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<td>BAC-SD</td>
<td>Board Advisory Committee on Sustainable Dev.</td>
<td>Sun</td>
<td>1:00 PM-4:00 PM</td>
<td>C-222</td>
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<td>BOD</td>
<td>Board of Direction</td>
<td>Thu</td>
<td>10:00 AM-5:00 PM</td>
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<tr>
<td>C 601-B</td>
<td>Certified Quality Technical Mgr</td>
<td>Wed</td>
<td>10:00 AM-12:30 PM</td>
<td>C-231</td>
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<td>C 601-C</td>
<td>Masonry Testing Technician</td>
<td>Mon</td>
<td>3:00 PM-4:30 PM</td>
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<td>C 601-D</td>
<td>Decorative Concrete Finisher</td>
<td>Wed</td>
<td>11:30 AM-1:00 PM</td>
<td>C-242</td>
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<td>C 610</td>
<td>Field Technician Cert</td>
<td>Mon</td>
<td>8:30 AM-11:30 AM</td>
<td>C-222</td>
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<td>C 620</td>
<td>Laboratory Tech Cert</td>
<td>Tue</td>
<td>8:30 AM-10:00 AM</td>
<td>R-BENTON</td>
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<td>C 630</td>
<td>Construction Inspector Cert</td>
<td>Tue</td>
<td>10:00 AM-11:30 AM</td>
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<td>C 631</td>
<td>Conc Transportation Const Insp</td>
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<td>1:00 PM-2:30 PM</td>
<td>R-MAJESTIC F</td>
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<td>C 640</td>
<td>Craftsman Cert</td>
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<td>12:30 PM-2:00 PM</td>
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<tr>
<td>C 650</td>
<td>Tilt-Up Constructor Cert</td>
<td>Mon</td>
<td>8:00 AM-9:30 AM</td>
<td>C-91</td>
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<td>C 660</td>
<td>Shotcrete Nozzlemans Cert</td>
<td>Mon</td>
<td>1:00 PM-3:00 PM</td>
<td>R-AUBERT</td>
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<tr>
<td>CAC</td>
<td>Chapter Activities</td>
<td>Mon</td>
<td>2:30 PM-5:00 PM</td>
<td>R-MAJESTIC F</td>
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<td>Tue</td>
<td>3:00 PM-5:00 PM</td>
<td>R-LANDMARK 6</td>
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<td>CLC</td>
<td>Construction Liaison</td>
<td>Sun</td>
<td>8:30 AM-11:30 AM</td>
<td>R-LANDMARK 7</td>
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<td>CLGE</td>
<td>Collegiate Concrete Council</td>
<td>Sun</td>
<td>4:00 PM-5:00 PM</td>
<td>R-LANDMARK 6</td>
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<td>CPC</td>
<td>Certification Programs</td>
<td>Tue</td>
<td>2:00 PM-5:00 PM</td>
<td>C-226</td>
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<td>Concrete Research Council</td>
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<td>11:30 AM-1:00 PM</td>
<td>R-MAJESTIC A</td>
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<tr>
<td>E 601</td>
<td>Seminar Oversight Committee</td>
<td>Sun</td>
<td>3:00 PM-5:00 PM</td>
<td>R-LUCAS</td>
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<td>E 701</td>
<td>Materials for Concrete Construction</td>
<td>Sun</td>
<td>10:00 AM-11:30 AM</td>
<td>R-PORTLAND</td>
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<tr>
<td>E 702</td>
<td>Designing Concrete Structures</td>
<td>Mon</td>
<td>5:00 PM-6:30 PM</td>
<td>R-MAJESTIC F</td>
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<tr>
<td>E 703</td>
<td>Concrete Construction Practices</td>
<td>Mon</td>
<td>5:00 PM-7:00 PM</td>
<td>R-MAJESTIC H</td>
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<td>E 706</td>
<td>Repair Application Procedures</td>
<td>Sun</td>
<td>8:00 AM-10:00 AM</td>
<td>R-PORTLAND</td>
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<tr>
<td>E 801</td>
<td>Student Activities</td>
<td>Sun</td>
<td>8:00 AM-10:00 AM</td>
<td>R-WEST-MORELAND</td>
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<tr>
<td>E 802</td>
<td>Teaching Methods and Educational Materials</td>
<td>Mon</td>
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<td>IC-Pub</td>
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<td>Int’l Joints and Bearings Research</td>
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<td>ISO/TC 71</td>
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<td>ITG-5</td>
<td>Precast Shear Walls for High Seismic Applications</td>
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## Numerical Committee Meeting Schedule

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<td>ITG-7</td>
<td>Spec for Tolerances for Precast Conc</td>
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<td>Performance Criteria for Concrete Materials</td>
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<td>Durability—Sulfate Attack</td>
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<td>Creep and Shrinkage</td>
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<td>Creep &amp; Shrinkage—Statistic Procedures</td>
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<td>Shrinkage Compensating</td>
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<td>Shr Compensating—Practitioner Guide</td>
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<td>Shear and Torsion</td>
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<td>318-H</td>
<td>Seismic Provisions</td>
<td>Tue</td>
<td>2:00 PM-6:30 PM</td>
<td>R-LANDMARK 2</td>
</tr>
<tr>
<td>318-L</td>
<td>International Liaison</td>
<td>Mon</td>
<td>3:30 PM-5:00 PM</td>
<td>R-KINGSBURY</td>
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<tr>
<td>318-R</td>
<td>Code Reorganization M1</td>
<td>Mon</td>
<td>8:30 AM-11:30 AM</td>
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<tr>
<td>318-R</td>
<td>Code Reorganization M2</td>
<td>Tue</td>
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<td>318-S</td>
<td>Spanish Translation</td>
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<td>325</td>
<td>Pavements</td>
<td>Tue</td>
<td>3:30 PM-6:30 PM</td>
<td>R-LANDMARK 3</td>
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<td>325-A</td>
<td>Pavements—Design</td>
<td>Tue</td>
<td>8:30 AM-10:00 AM</td>
<td>R-MAJESTIC A</td>
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<tr>
<td>325-C</td>
<td>Pavements—Prestressed and Precast</td>
<td>Tue</td>
<td>10:00 AM-11:30 AM</td>
<td>R-MAJESTIC A</td>
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<tr>
<td>325-D</td>
<td>Proportioning for Pavements</td>
<td>Tue</td>
<td>2:00 PM-3:30 PM</td>
<td>R-LANDMARK 3</td>
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<tr>
<td>327</td>
<td>RCC Pavements</td>
<td>Mon</td>
<td>2:00 PM-5:00 PM</td>
<td>R-LUCAS</td>
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<tr>
<td>330</td>
<td>Parking Lots and Site Paving</td>
<td>Wed</td>
<td>1:00 PM-4:00 PM</td>
<td>C-228</td>
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<tr>
<td>330-TG</td>
<td>Parking Lots and Site Paving TG</td>
<td>Wed</td>
<td>8:30 AM-11:30 AM</td>
<td>R-BENTON</td>
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<tr>
<td>332</td>
<td>Residential Concrete</td>
<td>Tue</td>
<td>2:00 PM-5:00 PM</td>
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<td>332-B&amp;C</td>
<td>Residential Concrete—Sub B &amp; C</td>
<td>Tue</td>
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<td>Residential Concrete—Sub D &amp; E</td>
<td>Tue</td>
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<td>R-MAJESTIC B</td>
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<td>332-F</td>
<td>Residential Concrete—Slabs</td>
<td>Tue</td>
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<td>334</td>
<td>Shells</td>
<td>Mon</td>
<td>5:00 PM-6:30 PM</td>
<td>R-LENNOX</td>
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<td>335</td>
<td>Composite Hybrid</td>
<td>Sun</td>
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<td>R-PORTLAND</td>
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<td>336</td>
<td>Footings</td>
<td>Sun</td>
<td>1:00 PM-5:00 PM</td>
<td>R-SHAW</td>
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<td>341</td>
<td>Earthquake-Resistant Bridges</td>
<td>Sun</td>
<td>3:00 PM-5:00 PM</td>
<td>C-232</td>
</tr>
<tr>
<td>341-A</td>
<td>Equake Res Brdgs—Columns</td>
<td>Sun</td>
<td>9:30 AM-11:00 AM</td>
<td>C-232</td>
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<tr>
<td>341-B</td>
<td>Equake Res Brdgs—Pier Walls</td>
<td>Sun</td>
<td>11:00 AM-12:30 PM</td>
<td>C-232</td>
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<tr>
<td>Code</td>
<td>Committee</td>
<td>Day</td>
<td>Time</td>
<td>Room Name</td>
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<td>341-C</td>
<td>Earthquake Res Brdgs— Retrofit</td>
<td>Sun</td>
<td>1:30 PM-3:00 PM</td>
<td>C-232</td>
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<td>341-D</td>
<td>Earthquake Res Brdgs— Perf Based Seismic Design</td>
<td>Sun</td>
<td>8:00 AM-9:30 AM</td>
<td>C-232</td>
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<tr>
<td>342</td>
<td>Bridge Evaluation</td>
<td>Sun</td>
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<td>R-KINGSBURY</td>
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<td>343</td>
<td>Bridge Design</td>
<td>Mon</td>
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<td>R-MAJESTIC H</td>
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<td>343-A</td>
<td>Design</td>
<td>Mon</td>
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<td>R-FLORA</td>
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<td>343-B</td>
<td>Bridge Deck Design</td>
<td>Mon</td>
<td>9:00 AM-10:00 AM</td>
<td>R-FORSYTH</td>
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<tr>
<td>345</td>
<td>Bridge Construction</td>
<td>Sun</td>
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<td>346</td>
<td>CIP Pipe</td>
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<td>11:30 AM-1:00 PM</td>
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<td>347</td>
<td>Formwork</td>
<td>Sun</td>
<td>8:30 AM-12:30 PM</td>
<td>R-RATHSKELLER</td>
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<td>347-A</td>
<td>Formwork— Specification</td>
<td>Sat</td>
<td>7:30 PM-10:00 PM</td>
<td>R-MAJESTIC C</td>
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<td>348</td>
<td>Safety</td>
<td>Tue</td>
<td>8:30 AM-10:00 AM</td>
<td>R-FLORA</td>
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<tr>
<td>349</td>
<td>Nuclear Structures</td>
<td>Tue</td>
<td>2:00 PM-5:00 PM</td>
<td>C-122</td>
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<td>349-A &amp; B</td>
<td>Nuclear Structures— Design and Materials</td>
<td>Tue</td>
<td>8:30 AM-12:30 PM</td>
<td>R-MAJESTIC H</td>
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<td>349-C</td>
<td>Nuclear Str— Anchorage</td>
<td>Mon</td>
<td>2:00 PM-5:00 PM</td>
<td>R-MAJESTIC A</td>
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<tr>
<td>350</td>
<td>Environmental Structures</td>
<td>Wed</td>
<td>8:30 AM-6:30 PM</td>
<td>C-227</td>
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<td>350-A</td>
<td>Env Str— General and Concrete</td>
<td>Tue</td>
<td>11:30 AM-3:30 PM</td>
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<td>350-B</td>
<td>Env Str— Durability</td>
<td>Mon</td>
<td>8:30 AM-1:00 PM</td>
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<td>350-C</td>
<td>Env Str— Reinf and Devel</td>
<td>Sun</td>
<td>10:00 AM-11:30 AM</td>
<td>R-LENNOX</td>
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<tr>
<td>350-D</td>
<td>Env Str— Structural</td>
<td>Mon</td>
<td>8:30 AM-6:30 PM</td>
<td>R-LANDMARK 2</td>
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<tr>
<td>350-E</td>
<td>Env Str— Precast/ Prestressed</td>
<td>Sun</td>
<td>1:00 PM-5:00 PM</td>
<td>R-RATHSKELLER</td>
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<tr>
<td>350-F</td>
<td>Env Str— Seismic</td>
<td>Tue</td>
<td>8:30 AM-3:30 PM</td>
<td>R-PARKVIEW</td>
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<td>350-G &amp; K</td>
<td>Env Str— Tightness Testing/Haz Mat</td>
<td>Mon</td>
<td>8:30 AM-11:30 AM</td>
<td>R-SHAW</td>
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<td>Day</td>
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<td>350-J</td>
<td>Env Str—Education</td>
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<td>5:00 PM-6:30 PM</td>
<td>R-FORSYTH</td>
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<td>350-L</td>
<td>Env Str—Specification</td>
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<td>3:30 PM-6:30 PM</td>
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<td>350-SC</td>
<td>Env Str—Steering Comm</td>
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<tr>
<td>351</td>
<td>Equipment Foundations</td>
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<td>351-A</td>
<td>Equip Fdns—Static Fdns</td>
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<td>R-LANDMARK 6</td>
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<tr>
<td>351-B</td>
<td>Equip Fndns—Equip Machinery</td>
<td>Mon</td>
<td>12:00 PM-2:00 PM</td>
<td>R-LANDMARK 6</td>
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<tr>
<td>352</td>
<td>Joints</td>
<td>Sun</td>
<td>2:00 PM-5:00 PM</td>
<td>R-MAJESTIC G</td>
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<td>355</td>
<td>Anchorage</td>
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<tr>
<td>355-TG</td>
<td>Anchorage TG</td>
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<td>R-MAJESTIC A</td>
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<tr>
<td>357</td>
<td>Offshore and Marine</td>
<td>Tue</td>
<td>8:30 AM-11:30 AM</td>
<td>R-MAJESTIC F</td>
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<td>359</td>
<td>Nuclear Reactors</td>
<td>Wed</td>
<td>8:30 AM-5:00 PM</td>
<td>C-226</td>
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<tr>
<td>360</td>
<td>Slabs on Ground</td>
<td>Mon</td>
<td>2:00 PM-6:30 PM</td>
<td>C-227</td>
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<tr>
<td>362</td>
<td>Parking Structures</td>
<td>Mon</td>
<td>1:00 PM-5:00 PM</td>
<td>R-MAJESTIC H</td>
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<tr>
<td>362-A</td>
<td>Parking Str—Standard</td>
<td>Mon</td>
<td>8:30 AM-12:00 PM</td>
<td>R-WESTMINSTER</td>
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<tr>
<td>363</td>
<td>High-Strength</td>
<td>Wed</td>
<td>8:30 AM-11:30 AM</td>
<td>C-232</td>
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<td>363-A</td>
<td>High-Strength—State-of-the-Art Report</td>
<td>Tue</td>
<td>3:30 PM-5:00 PM</td>
<td>C-92</td>
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<td>364</td>
<td>Rehabilitation</td>
<td>Mon</td>
<td>2:00 PM-5:00 PM</td>
<td>C-231</td>
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<tr>
<td>364-A</td>
<td>Rehabilitation—Evaluation</td>
<td>Mon</td>
<td>11:30 AM-2:00 PM</td>
<td>C-231</td>
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<tr>
<td>365</td>
<td>Service Life</td>
<td>Mon</td>
<td>9:00 AM-1:00 PM</td>
<td>C-226</td>
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<td>365-A</td>
<td>Service Life—Std Model Development</td>
<td>Mon</td>
<td>2:00 PM-5:00 PM</td>
<td>C-226</td>
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<tr>
<td>369</td>
<td>Seismic Rehab</td>
<td>Mon</td>
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<tr>
<td>370</td>
<td>Dynamic and Vibratory Effects</td>
<td>Sun</td>
<td>1:30 PM-3:30 PM</td>
<td>R-BENTON</td>
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<tr>
<td>371</td>
<td>Elevated Tanks with Concrete Pedestals</td>
<td>Tue</td>
<td>10:00 AM-1:00 PM</td>
<td>C-91</td>
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<td>Day</td>
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<tr>
<td>372</td>
<td>Prestressed/Wire Wrapped</td>
<td>Tue</td>
<td>3:00 PM-5:00 PM</td>
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<td>373</td>
<td>Prestressed/Tendons</td>
<td>Sun</td>
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<td>374</td>
<td>Seismic Design</td>
<td>Mon</td>
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<td>R-LANDMARK 7</td>
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<td>375</td>
<td>Design for Wind Loads</td>
<td>Mon</td>
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<td>R-LENNOX</td>
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<tr>
<td>376</td>
<td>RLG Containment Structures M1</td>
<td>Sat</td>
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<tr>
<td>376-TG</td>
<td>RLG Containment Structures M2</td>
<td>Sun</td>
<td>9:00 AM-5:00 PM</td>
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<td>376-TG</td>
<td>RLG Containment Structures TG M1</td>
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<td>376-TG</td>
<td>RLG Containment Structures TG M2</td>
<td>Tue</td>
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<td>376-TG</td>
<td>RLG Containment Structures TG M3</td>
<td>Wed</td>
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<td>C-240</td>
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<td>408</td>
<td>Development and Splicing</td>
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<td>421</td>
<td>Reinforced Slabs</td>
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<td>R-LANDMARK 6</td>
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<td>Prestressed</td>
<td>Mon</td>
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<tr>
<td>423/445</td>
<td>Adhoc Grp on Shear in Prestress Conc</td>
<td>Sun</td>
<td>3:00 PM-5:00 PM</td>
<td>R-LAFAYETTE</td>
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<td>435</td>
<td>Deflection</td>
<td>Mon</td>
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<td>437</td>
<td>Strength Evaluation</td>
<td>Mon</td>
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<td>R-MAJESTIC F</td>
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<td>439</td>
<td>Steel Reinforcement</td>
<td>Mon</td>
<td>8:30 AM-10:00 AM</td>
<td>R-HAWTHORNE</td>
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<td>439-A</td>
<td>Steel Reinf—Wire</td>
<td>Sun</td>
<td>3:30 PM-5:00 PM</td>
<td>R-KINGSBURY</td>
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<tr>
<td>440</td>
<td>Fiber Reinforced Polymer Reinforcement</td>
<td>Tue</td>
<td>1:00 PM-4:00 PM</td>
<td>C-231 &amp; 232</td>
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<td>440-D</td>
<td>FRP—Research and Dev.</td>
<td>Sun</td>
<td>1:00 PM-2:30 PM</td>
<td>R-LANDMARK 4</td>
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<tr>
<td>440-E</td>
<td>FRP—Prof Education</td>
<td>Tue</td>
<td>8:00 AM-9:30 AM</td>
<td>R-LANDMARK 5</td>
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<td>440-F</td>
<td>FRP—Repair Strengthening</td>
<td>Sun</td>
<td>2:30 PM-5:00 PM</td>
<td>R-LANDMARK 4</td>
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<tr>
<td>440-G</td>
<td>FRP—Student</td>
<td>Mon</td>
<td>8:15 AM-10:15 AM</td>
<td>C-242</td>
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<td>Committee</td>
<td>Day</td>
<td>Time</td>
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<td>440-H</td>
<td>FRP—Reinforced Concrete</td>
<td>Mon</td>
<td>1:30 PM-4:30 PM</td>
<td>C-242</td>
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<tr>
<td>440-I</td>
<td>FRP—Prestressed Concrete</td>
<td>Mon</td>
<td>10:15 AM-12:30 PM</td>
<td>C-242</td>
</tr>
<tr>
<td>440-J</td>
<td>FRP—Stay-in-Place Forms</td>
<td>Mon</td>
<td>4:30 PM-6:00 PM</td>
<td>C-242</td>
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<td>440-K</td>
<td>FRP—Material Characteristics</td>
<td>Sun</td>
<td>11:00 AM-1:00 PM</td>
<td>R-LANDMARK 4</td>
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<td>440-L</td>
<td>FRP—Durability</td>
<td>Tue</td>
<td>9:30 AM-11:30 AM</td>
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<td>440-M</td>
<td>FRP—Repair of Masonry Str</td>
<td>Sun</td>
<td>8:00 AM-11:00 AM</td>
<td>R-LANDMARK 4</td>
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<tr>
<td>441</td>
<td>Columns</td>
<td>Mon</td>
<td>11:30 AM-2:00 PM</td>
<td>R-PORTLAND</td>
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<td>444</td>
<td>Experimental Analysis</td>
<td>Mon</td>
<td>12:00 PM-2:00 PM</td>
<td>R-MAJESTIC A</td>
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<tr>
<td>445</td>
<td>Shear and Torsion</td>
<td>Mon</td>
<td>2:00 PM-6:00 PM</td>
<td>R-HAWTHORNE</td>
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<td>445-A</td>
<td>Shear and Torsion—Strut &amp; Tie</td>
<td>Sun</td>
<td>10:30 AM-1:30 PM</td>
<td>R-KINGSBURY</td>
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<td>445-B</td>
<td>Shear and Torsion—Seismic Shear</td>
<td>Sun</td>
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<td>445-C</td>
<td>Shear and Torsion—Punching Shear</td>
<td>Sun</td>
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<td>445-D</td>
<td>Shear and Torsion—Database</td>
<td>Mon</td>
<td>10:00 AM-12:00 PM</td>
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<td>Shear and Torsion—SOA Torsion</td>
<td>Sun</td>
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<td>446</td>
<td>Fracture Mechanics</td>
<td>Mon</td>
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<td>Finite Element Analysis</td>
<td>Mon</td>
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<td>503</td>
<td>Adhesives</td>
<td>Tue</td>
<td>10:00 AM-12:00 PM</td>
<td>R-HAWTHORNE</td>
</tr>
<tr>
<td>506</td>
<td>Shotcreting</td>
<td>Tue</td>
<td>8:30 AM-11:30 AM</td>
<td>C-242</td>
</tr>
<tr>
<td>506-A</td>
<td>Shotcreting—Evaluation</td>
<td>Sun</td>
<td>9:30 AM-11:00 AM</td>
<td>R-LAFAYETTE</td>
</tr>
<tr>
<td>506-B</td>
<td>Shotcreting—Fiber Reinforced</td>
<td>Sun</td>
<td>1:30 PM-3:00 PM</td>
<td>R-LAFAYETTE</td>
</tr>
<tr>
<td>506-C</td>
<td>Shotcreting—Guide</td>
<td>Mon</td>
<td>8:30 AM-10:00 AM</td>
<td>R-LACLEDE</td>
</tr>
<tr>
<td>506-E</td>
<td>Shotcreting—Specifications</td>
<td>Mon</td>
<td>10:00 AM-12:30 PM</td>
<td>R-LACLEDE</td>
</tr>
<tr>
<td>506-F</td>
<td>Shotcreting—Underground</td>
<td>Mon</td>
<td>3:00 PM-5:00 PM</td>
<td>R-LACLEDE</td>
</tr>
<tr>
<td>Code</td>
<td>Committee</td>
<td>Day</td>
<td>Time</td>
<td>Room Name</td>
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<tr>
<td>506-G</td>
<td>Shotcreting—Qualifications</td>
<td>Sun</td>
<td>11:00 AM-12:30 PM</td>
<td>R-LAFAYETTE</td>
</tr>
<tr>
<td>515</td>
<td>Protective Systems</td>
<td>Tue</td>
<td>11:30 AM-2:00 PM</td>
<td>R-AUBERT</td>
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<tr>
<td>522</td>
<td>Pervious Concrete</td>
<td>Tue</td>
<td>8:30 AM-11:30 AM</td>
<td>R-WEST-MORELAND</td>
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<tr>
<td>523</td>
<td>Cellular Concrete</td>
<td>Mon</td>
<td>10:00 AM-1:00 PM</td>
<td>R-MAJESTIC B</td>
</tr>
<tr>
<td>523-A</td>
<td>Cellular—Autoclaved Aerated</td>
<td>Mon</td>
<td>8:30 AM-10:00 AM</td>
<td>R-MAJESTIC B</td>
</tr>
<tr>
<td>524</td>
<td>Plastering</td>
<td>Mon</td>
<td>8:30 AM-10:00 AM</td>
<td>R-KINGSBURY</td>
</tr>
<tr>
<td>533</td>
<td>Precast Panels</td>
<td>Mon</td>
<td>2:30 PM-4:00 PM</td>
<td>R-RATHSKELLER</td>
</tr>
<tr>
<td>543</td>
<td>Piles</td>
<td>Mon</td>
<td>8:30 AM-11:30 AM</td>
<td>R-LANDMARK 3</td>
</tr>
<tr>
<td>544</td>
<td>Fiber Reinforced Concrete</td>
<td>Tue</td>
<td>3:30 PM-6:00 PM</td>
<td>C-120</td>
</tr>
<tr>
<td>544-A</td>
<td>FRC—Production and Applications</td>
<td>Mon</td>
<td>11:30 AM-1:00 PM</td>
<td>C-222</td>
</tr>
<tr>
<td>544-B</td>
<td>FRC—Education</td>
<td>Mon</td>
<td>8:30 AM-10:00 AM</td>
<td>C-241</td>
</tr>
<tr>
<td>544-C</td>
<td>FRC—Testing</td>
<td>Tue</td>
<td>2:00 PM-3:30 PM</td>
<td>C-120</td>
</tr>
<tr>
<td>544-D</td>
<td>FRC—Structural Uses</td>
<td>Mon</td>
<td>3:30 PM-6:00 PM</td>
<td>C-222</td>
</tr>
<tr>
<td>544-E</td>
<td>FRC—Mechanical Properties</td>
<td>Mon</td>
<td>2:00 PM-3:30 PM</td>
<td>C-222</td>
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<tr>
<td>544-F</td>
<td>FRC—Durability</td>
<td>Tue</td>
<td>10:30 AM-12:00 PM</td>
<td>C-227</td>
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<tr>
<td>546</td>
<td>Repair</td>
<td>Mon</td>
<td>8:30 AM-11:30 AM</td>
<td>R-LANDMARK 1</td>
</tr>
<tr>
<td>546-A</td>
<td>Repair—Underwater</td>
<td>Sun</td>
<td>8:30 AM-9:30 AM</td>
<td>R-PARKVIEW</td>
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<tr>
<td>546-B</td>
<td>Repair—Material Selection Guide</td>
<td>Sun</td>
<td>9:30 AM-10:30 AM</td>
<td>R-PARKVIEW</td>
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<tr>
<td>546-C</td>
<td>Repair—Guide</td>
<td>Sun</td>
<td>10:30 AM-11:30 AM</td>
<td>R-PARKVIEW</td>
</tr>
<tr>
<td>548</td>
<td>Polymers</td>
<td>Tue</td>
<td>8:30 AM-10:00 AM</td>
<td>R-HAWTHORNE</td>
</tr>
<tr>
<td>548-A</td>
<td>Polymers—Overlays</td>
<td>Mon</td>
<td>8:30 AM-11:30 AM</td>
<td>R-RATHSKELLER</td>
</tr>
<tr>
<td>548-B</td>
<td>Polymers—Sulfur Concrete</td>
<td>Mon</td>
<td>1:00 PM-2:30 PM</td>
<td>R-RATHSKELLER</td>
</tr>
<tr>
<td>548-C</td>
<td>Polymers—Str Design and Analysis</td>
<td>Mon</td>
<td>11:30 AM-1:00 PM</td>
<td>R-RATHSKELLER</td>
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<tr>
<td>Code</td>
<td>Committee</td>
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<tr>
<td>548-TG</td>
<td>Polymers—TG</td>
<td>Sun</td>
<td>2:00 PM-3:00 PM</td>
<td>R-KINGSBURY</td>
</tr>
<tr>
<td>549</td>
<td>Thin Reinforced</td>
<td>Sun</td>
<td>10:30 AM-2:00 PM</td>
<td>C-231</td>
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<tr>
<td>549-A</td>
<td>Thin Reinforced—Premix GFRC</td>
<td>Sun</td>
<td>8:30 AM-10:30 AM</td>
<td>C-231</td>
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<tr>
<td>550</td>
<td>Precast Structures</td>
<td>Tue</td>
<td>1:00 PM-3:30 PM</td>
<td>C-121</td>
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<tr>
<td>551</td>
<td>Tilt-Up</td>
<td>Sun</td>
<td>8:00 AM-11:00 AM</td>
<td>R-AUBERT</td>
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<tr>
<td>552</td>
<td>Cementitious Grouting</td>
<td>Mon</td>
<td>11:30 AM-2:00 PM</td>
<td>R-KINGSBURY</td>
</tr>
<tr>
<td>555</td>
<td>Recycled</td>
<td>Mon</td>
<td>5:00 PM-6:30 PM</td>
<td>R-MAJESTIC A</td>
</tr>
<tr>
<td>560</td>
<td>Design &amp; Constr ICFs</td>
<td>Wed</td>
<td>8:30 AM-11:30 AM</td>
<td>C-241</td>
</tr>
<tr>
<td>562</td>
<td>Eval, Repair, and Rehab</td>
<td>Sun</td>
<td>1:30 PM-5:00 PM</td>
<td>R-LANDMARK 2</td>
</tr>
<tr>
<td>562-A</td>
<td>Eval, Repair and Rehab—Life Safety</td>
<td>Sun</td>
<td>9:00 AM-12:00 PM</td>
<td>C-91</td>
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<tr>
<td>562-B</td>
<td>Eval, Repair, and Rehab—Loads</td>
<td>Sun</td>
<td>9:00 AM-12:00 PM</td>
<td>C-92</td>
</tr>
<tr>
<td>562-C</td>
<td>Eval, Repair, and Rehab—Structural Analysis</td>
<td>Sun</td>
<td>9:00 AM-12:00 PM</td>
<td>C-93</td>
</tr>
<tr>
<td>562-Co</td>
<td>Eval, Repair, and Rehab—Coordination Meeting</td>
<td>Sun</td>
<td>8:00 AM-9:00 AM</td>
<td>C-222</td>
</tr>
<tr>
<td>562-D</td>
<td>Eval, Repair, and Rehab—Structural Repair Design</td>
<td>Sun</td>
<td>9:00 AM-12:00 PM</td>
<td>C-94</td>
</tr>
<tr>
<td>562-E</td>
<td>Eval, Repair, and Rehab—Durability Quality Assurance</td>
<td>Sun</td>
<td>9:00 AM-12:00 PM</td>
<td>C-95</td>
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<tr>
<td>562-F</td>
<td>Eval, Repair, and Rehab—General</td>
<td>Sun</td>
<td>9:00 AM-12:00 PM</td>
<td>C-222</td>
</tr>
<tr>
<td>563</td>
<td>Specs for Repair of Struct Conc in Bldgs</td>
<td>Tue</td>
<td>2:00 PM-5:00 PM</td>
<td>C-242</td>
</tr>
</tbody>
</table>
Sustainable Development Workshop on Concrete, Green Building, and ISO Standards
Sponsored by the Board Advisory Committee on Sustainable Development

Session Co-Moderators: Koji Sakai
Head Materials Section
Kagawa University
Takamatsu, Kagawa, Japan

Douglas J. Sordyl
Managing Director, Marketing, Sales & Industry Relations
American Concrete Institute
Farmington Hills, MI

This workshop will focus on environmental management for concrete and concrete structures, with specific focus on the new Standard under development by ISO/TC71/SC8. Discussion topics will include an evaluation system on the materials flow of concrete, environmental design of concrete structures, green concrete technologies for life-cycle design of concrete structures, and more.

Introduction 1:00 PM
Douglas J. Sordyl, Managing Director, Marketing, Sales & Industry Relations, American Concrete Institute, Farmington Hills, MI

Background on ISO/TC71/SC8 1:10 PM
Koji Sakai, Head Materials Section, Kagawa University, Takamatsu, Kagawa, Japan

Rating Systems—LEED and Green Globes 1:30 PM
Julie Buffenbarger, Engineering and Architectural Specialist, Lafarge North America, Medina, OH

A Concrete Rating System 1:50 PM
Terence C. Holland, Consulting Engineer, Auburn Township, OH

Environmental Design of Concrete Structures 2:10 PM
Kenji Kawai, Associate Professor, Hiroshima University, Higashihiroshima, Japan
Saturday, November 1, 2008
1:00 PM - 6:00 PM

Sustainable Development Workshop on Concrete, Green Building, and ISO Standards (cont.)

“Green” Concrete Structures  2:30 PM
Mette Glavind, Head of Section, Concrete Center in Danish Technological Institute, Taastrup, Denmark

Application of “ecoMA—the Social System Simulator” to Materials Flow in Concrete Industries
Takafumi Noguchi, Research Associate, The University of Tokyo, Tokyo, Japan

Plenary Session  3:30 PM
Koji Sakai, Head Materials Section, Kagawa University, Takamatsu, Kagawa, Japan; and Douglas J. Sordyl, Managing Director, Marketing, Sales & Industry Relations, American Concrete Institute, Farmington Hills, MI

Closing  5:45 PM
Koji Sakai, Head Materials Section, Kagawa University, Takamatsu, Kagawa, Japan

R-MAJESTIC H
Sunday, November 2, 2008
7:30 AM - 12:00 PM

✓ Holcim Plant Tour
$45 U.S. per person

Enjoy a tour of the Holcim Cement Plant. Opening in 2009, the Holcim Cement Plant is soon to be one of the largest producers of portland cement, estimated to produce over 4,000,000 metric tons of cement a year. No shorts are allowed on this tour, shirts/blouses with sleeves must be at least four inches in length, and you must wear closed-toe shoes. No high heels are allowed. A 20-minute safety video must be viewed before the tour begins. This tour includes a boxed breakfast. Departure for this tour will be located at the St. Charles Street exit at the Renaissance Grand.

✓ = Separate fee required
Sunday, November 2, 2008
8:00 AM - 9:00 AM

First-Time Convention Attendee Breakfast
Sponsored by the ACI Convention Committee

Assistant Vice-President
Waldemar S. Nelson & Co. Inc.
New Orleans, LA

First-time convention attendees are invited to join Bill Rushing, Chair of the ACI Convention Committee, for a continental breakfast and a brief session to orient you to the week ahead. Attendees will have the opportunity to meet other convention attendees and learn about what an ACI convention has to offer.
Sunday, November 2, 2008
12:00 PM - 2:00 PM

✓ International Lunch

$43 U.S. per person
Hosted by the ACI International Committee

Speaker: Konrad Bergmeister
Professor
Universität für Bodenkultur
Vienna, Austria

Topic: Repair and Maintenance of Aging RC Bridges

Join other ACI attendees for a discussion on the repair and maintenance of aging RC bridges during the International Lunch with featured speaker Professor Konrad Bergmeister from the Universität für Bodenkultur in Austria. Dr. Bergmeister has a PhD in both rural architecture and civil engineering, as well as a master's degree in manufacturing systems from Clarkson University. In addition to his 18 years of professional experience, Dr. Bergmeister is also a member of the Berlin-Brandenburg Academy of Science and the German Academy of Science.

Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.

✓ = Separate fee required

91
Student Concrete Cylinder Competition

C-105

Sponsored by ACI Committee E801, Student Activities, and the ACI Missouri Chapter

Session Co-Moderators: Lawrence H. Taber
Structural Engineer
Black & Veatch
Kansas City, MO

Patrick T. Earney
Trabue, Hansen and Hinshaw
Columbia, MO

Students must produce a concrete cylinder made of specific cementitious materials that will withstand a compression test and other performance measuring criteria. Come cheer on your favorite team!

Sunday, November 2, 2008
1:00 PM - 5:00 PM

Testing device provided by SCI Engineering

SCI ENGINEERING, INC.
This session will include several important presentations on concrete design issues dealing with extreme event loading. Topics will include the effects of earthquake, wind, flooding, wildfires, and blast in the design and detailing of concrete bridges. Presentations on bridge projects being planned, currently under construction, or recently completed will be included. This session is intended to provide practicing engineers, researchers, producers, and client agencies, including federal, state, and local agencies, with the latest developments regarding the effects of extreme events in the design of concrete bridges.

Methods for Determining Flotilla Impact Forces  2:00 PM
on Bridge Piers
Issam Harik, Professor, University of Kentucky, Lexington, KY; and Raymond Blythe, and Peng Yuan, University of Kentucky

Durable and Economic Bridge Design for Extreme Events  2:20 PM
Arthur Wagner D’Andrea, Design Engineer, Louisiana Department of Transportation, Baton Rouge, LA

New Mississippi River Bridge Project: Seismic Design  2:40 PM
Brooks Brestal, Project Manager, Illinois Department of Transportation, Collinsville, IL

Concrete Bridge Design for Extreme Flood Effect  3:00 PM
Nur Yazdani, Professor and Chairman of Civil Engineering, University of Texas at Arlington, Arlington, TX; and Muhammad Enam, FAMU-Florida State University
Concrete Bridge Design for Extreme Events (cont.)

Fire-Resistant Design of Concrete Bridges
Shrinivas Bhide, Director of Engineering, Bentley Systems Inc., Tampa, FL; and David Bilow, Portland Cement Association

US 40/I-64 Seismic Retrofit: A Case Study in Retrofitting With Concrete
John Finke, Manager, Jacobs Civil Inc., St. Louis, MO

Blast-Resistant Bridges: Design and Detailing
Eric Williamson, Assistant Professor of Civil Engineering, University of Texas, Austin, TX
Durable concrete pavements require careful materials selection and construction to translate designs into practice. In many harsh environments, durability is the controlling factor for pavement performance. Designers, specifiers, and builders of all types of pavements and exterior concrete slabs will learn the steps to making pavements last longer.

CP Road Map Activities Related to Long-Life Pavements 2:00 PM
Tom Cackler, Director, Iowa State University, Ames, IA

Construction of Long-Lasting Green Highways 2:25 PM
Timothy Smith, Director, Cement Association of Canada, Ottawa, ON, Canada

Long-Life Concrete Pavements in the U.S. 2:50 PM
Kurt Smith, Program Director, Applied Pavement Technology Inc., Urbana, IL

Long-Life Pavements in Europe and Canada 3:15 PM
Suneel Vanikar, Senior Project Manager, FHWA Office of Pavement Technologies, Washington, DC

Long-Life Pavement Design Using Street Pave 3:40 PM
Scott R. Haislip, Director, American Concrete Pavement Association, Munster, IN

Design and Construction of Concrete Overlays in Illinois 4:05 PM
Randy Riley, Executive Director, Illinois Chapter, Inc., Springfield, IL
Designing and Constructing Durable Long-Life Concrete Pavements, Part 1 (cont.)

Heavy-Duty Pavement Joints and Curling: What Works and What Does Not

Jerry Holland, Director of Design Services, Structural Services Inc., Jonesboro, GA

Sunday, November 2, 2008
2:00 PM - 5:00 PM
Emerging Technologies in Civil Infrastructure Applications

Sponsored by the TAC Technology Transfer Committee Task Group

Session Moderator: Joseph Sanders
Vice President
Charles Pankow Builders Ltd.
Pasadena, CA

This session highlights the status of some of the Strategic Development Council’s industry-critical technologies and the role played by the TTTC in its industry adoption process.

TAC Technology Transfer Committee: Its Role in Accelerating Technology Transfer
Emmanuel K. Attiogbe, Manager Technical Services, BASF Admixtures, Cleveland, OH

ITG-7: Update Specification for Tolerance for Precast Concrete
Charles S. Hanskat, Principal Engineer, Hanskat Consulting, Northbrook, IL

Building Information Modeling (BIM): Issues and Obstacles
Allan Bommer, Chief Design Engineer, Bentley Systems Inc., Seattle, WA

Innovative Mitigation Strategies to Reduce Early-Age Cracking
W. Jason Weiss, Professor, Purdue University, West Lafayette, IN; and Dale Bentz, National Institute of Standards and Technology

Sustainable Construction with Concrete
Jean-Claude Roumain, Corporate Product Manager, Holcim U.S. Inc., Louisville, CO

ITG-8 Update: Performance Criteria for Concrete Materials
Kenneth Rear, Vice President of Research & Support, KBR Resources Inc., Holmes Beach, FL
IPS-1 Update Summary and Applications for RC Buildings  C-225
Sponsored by Committee 314, Simplified Design of Concrete Buildings

Session Co-Moderators: José M. Izquierdo-Encarnacion
Principal
PORTICUS
San Juan, PR

JoAnn Browning
Associate Professor
University of Kansas
Lawrence, KS

The document, *Essential Requirements for Reinforced Concrete Buildings*, presents simplified procedures to design regular structures based on the ACI 318 Building Code. Committee 314 has updated the document to comply with ACI 318-08 requirements and will present the background of its development and examples of its application.

**History of IPS-1 and Comparison with ACI 318**  2:00 PM
Luis E. García, Partner and President, Proyectos y Diseños Ltda, Bogota, Colombia

**Application of IPS-1 to Regular RC Buildings**  2:50 PM
José M. Izquierdo-Encarnacion, Principal, PORTICUS, San Juan, PR

**Design and Economic Evaluation of Example Building Designed Using IPS-1 and ACI 318-08**  3:40 PM
Jorge Segura, Engineer, Jorge Segura Franco & Cia, Bogota, Colombia

**International Implications of IPS-1**  4:20 PM
Guillermo Santana, Professor, University of Costa Rica, San Pedro, Costa Rica
Sunday, November 2, 2008
2:00 PM - 5:00 PM

Uplifting Concrete in Museums, Churches, and Civic Architecture

Co-Sponsored by ACI Committee 124, Concrete Aesthetics, and the Materials Center, Sam Fox School of Design and Visual Arts, Washington University in St. Louis, supported by the American Institute of Architects in St. Louis

Session Moderator: Michael Paul
Senior Consultant
Duffield Associates Inc.
Wilmington, DE

This session will address the use of exposed concrete in buildings and other structures that engage and enhance the human spirit.

Introduction 2:00 PM
Michael Paul, Senior Consultant, Duffield Associates Inc., Wilmington, DE

Louis I. Kahn and the Nature of Concrete 2:05 PM
Robert McCarter, Ruth and Norman Moore Professor of Architecture, Washington University, St. Louis, MO

Perret and Le Corbusier: A Dialogue in Reinforced Concrete 3:00 PM
Liane Hancock, Undergraduate Program Administrator, Washington University, St. Louis, MO

Grace Cathedral—A Gothic Essay in Concrete 3:35 PM
Andrew Budek-Schmeisser, Assistant Professor, New Mexico Institute of Mining and Technology, Socorro, NM; and Barbara Budek-Schmeisser, New Mexico Institute of Mining and Technology

Architecture as Art—Tadao Ando’s Pulitzer Foundation for the Arts 4:10 PM
James Cartwright, Architect, American Institute of Architects, St. Louis, MO
This Opening Session officially kicks off the St. Louis Convention with the annual Hardy Cross Lecture Series, with featured speaker Tony Fiorato, former President, CTL Group. He will be discussing how Hardy Cross raised issues on engineering standardization that are just as relevant today as when he wrote them 80 years ago. The talk will address standardization of building codes materials specifications, test methods, and how we can benefit from Cross' reflections on “intelligent standards versus standardized intelligence.”
Sunday, November 2, 2008
Approx. 6:30 PM - 7:30 PM

Opening Reception
Sponsored by the ACI Missouri Chapter

Following the Opening Session, meet your colleagues, friends, and exhibitors for a beverage from the cash bar and light refreshments in the exhibit area. This is a networking opportunity you won’t want to miss!
It is time that we initiate a serious dialogue within the professional community in particular, and the nation at large on the critical tasks of renewing and securing our bridge infrastructure. Approximately 30% of America’s 600,000 public bridges are classified as either structurally deficient or functionally obsolete, with the cost of rehabilitation or replacement estimated at over $150 billion. Added to normal aging and deterioration is the new challenge of securing our critical bridges against the potential threat of terrorism. The economic and psychological impact of a successful attack on one of our critical bridges is likely to be devastating. This Hot Topic Session will bring together a panel of engineering experts from academic, state, and federal agencies to talk about the reconstruction efforts of the I-35 Bridge in Minneapolis, recent developments and challenges in highway bridge inspection and cost-effective security mitigation strategies for highway bridges. The discussions to follow will highlight recent advances in materials, construction, and inspection techniques, and threat-mitigation strategies that will aid in this renewal effort.

The Reconstruction of the 35W Bridge 7:30 PM
Jon Chiglo, Project Manager, Minnesota Department of Transportation, Minneapolis, MN

Developments and Challenges in Highway Bridge Inspection 8:00 PM
Glenn Washer, Assistant Professor, University of Missouri-Columbia, Columbia, MO
Hot Topic Session: Renewal of Bridge Infrastructure: Inspection Maintenance and Security Upgrades (cont.)

Selecting Cost-Effective Security Mitigation Strategies for Highway Bridges 8:30 PM
Steven Ernst, Senior Bridge Engineer, Federal Highway Administration, Washington, DC

Question and Answer 9:00 PM
Abdeldjelil Belarbi, Distinguished Professor, Missouri University of Science and Technology, Rolla, MO; and Vellore Gopalaratnam, University of Missouri-Columbia
ACI Technical Committee Chairs are expected to attend this breakfast workshop to meet with fellow chairs, TAC members, and ACI staff, and to hear updates on important recent developments of interest to ACI Technical Committee Chairs. There will be table discussions and short presentations. If you are unable to attend, please ask the secretary or another committee member to represent you in your absence.
Ken Hover, Professor and Weiss Presidential Fellow at Cornell University, will discuss how your ACI audience wants to hear what you have to say, and to see what you have to show. But while you can count on initial audience interest, you can’t assume that everyone in the room sees your story, your problem, or your solution the same way you do. Given the wide range of backgrounds and expectations in the typical ACI audience, part of your challenge is to provide enough “handles” on your topic so that almost everybody can not only grab on, but carry something away. A continental breakfast will be served.
ACI Student Fellowships and Young Member Initiatives

Sponsored by ACI Committee E803, Faculty Network Coordinating Committee

Session Moderator: Norbert J. Delatte
Professor
Cleveland State University
Broadview Heights, OH

This session will highlight the research work and careers of ACI Fellowship awardees. An introductory presentation will provide an overview of ACI’s Student and Young Member Programs.

Earthquake-Resistant Design of Coupled Wall Systems Incorporating High-Performance Fiber-Reinforced Concrete
Remy Lequesne, PhD Candidate, University of Michigan, Ann Arbor, MI

The ACI Student Fellowship Program: Helping Students with Concrete Futures
Stephan Durham, Assistant Professor, University of Colorado at Denver, Denver, CO

Fatigue Durability of Partially Post-Tensioned Concrete Members
Jeffery Volz, Instructor and PhD Candidate, Missouri University of Science and Technology, Rolla, MO

Blast Performance of Long Carbon Fiber-Reinforced Concrete
Andrew Coughlin, Masters Candidate, Hinman Consulting Engineers, San Francisco, CA

The Physical and Chemical Characteristics of the Shell of Air-Entrained Bubbles in Cement Paste
Tyler Ley, Assistant Professor, Oklahoma State University, Stillwater, OK

Bond and Development of Reinforcing Steel for Structural Evaluation and Rehabilitation
Lisa Feldman, Assistant Professor, University of Saskatchewan, Saskatoon, SK, Canada

Monday, November 3, 2008
9:00 AM - 12:00 PM
Effects of Testing Variables on Concrete Beam Specimen Results
Joseph Clendenen, Technical Service Engineer, Holcim (U.S.) Inc., Ellsworth, WI

Optimization of Mass Concrete Bridge Construction
Kyle Riding, Graduate Research Assistant, Kansas State University, Manhattan, KS
Monday, November 3, 2008
9:00 AM - 12:00 PM

Designing and Constructing Durable Long-Life Concrete Pavements, Part 2
Sponsored by ACI Committee 325, Concrete Pavements, and 330, Concrete Parking Lots and Site Paving

Session Co-Moderators: Timothy Smith
Director
Cement Association of Canada
Ottawa, ON, Canada

David Akers
Senior Engineer
California Nevada Cement Association
San Diego, CA

Durable concrete pavements require careful materials selection and construction to translate designs into practice. In many harsh environments, durability is the controlling factor for pavement performance. Designers, specifiers, and builders of all types of pavements and exterior concrete slabs will learn the steps to making pavements last longer.

HIPERPAV and SmartCure: Ensuring Optimal Early Age Concrete for Long-Life Durability
Sabrina Garber, Project Manager, Transtec Group, Austin, TX

Protocol for Designing ASR-Resistant Concrete Mixtures
Gina Ahlstrom, Concrete Pavement Engineer, Federal Highway Administration, Washington, DC

Long-Term Durability and Serviceability of Concrete Parking Lots in Texas
Robert Lopez, Senior Advisor, Cement Council of Texas, Hurst, TX

Durability Testing of Pervious Concrete
Matthew Offenberg, Market Development Manager, W.R. Grace, Canton, GA; and Michael Davy, CEMEX

Best Practice for Early Opening of Concrete Pavements to Traffic
Shiraz Tayabji, Regional Manager, Fugro Consultants Inc., Ellicott City, MD
Designing and Constructing Durable Long-Life Concrete Pavements, Part 2 (cont.)

Set Time and Early Strength Variability of Concrete Paving Mixtures  11:05 AM
Tim Cost, Senior Technical Service Engineer, Holcim (U.S.) Inc., Canton, MS

Optimizing Concrete Paving Mixtures  11:30 AM
James Shilstone Sr., Concrete Engineer, Shilstone Companies, Irving, TX
Recent Advancements in Concrete Technology in Taiwan

Sponsored by the ACI Taiwan Chapter

Session Co-Moderators: Tony Liu
Visiting Research Fellow
National Taiwan University
Taipei, Taiwan

Ta-Peng Chang
Professor
National Taiwan University
Taipei, Taiwan

In recent years, Taiwan has made many technological advancements in concrete technology. This half-day session will present the recent advancements in concrete technology, including the innovative construction methods, earthquake engineering research, self-consolidating concrete, and some case studies.

Innovative Construction Automation for High-Tech Facilities 9:00 AM
Willie Lai, President, Ruentex Development Co., Taipei, Taiwan

Development and Applications of SCC in Taiwan 9:30 AM
Yin-Wen Chan, Professor, National Taiwan University, Taipei, Taiwan;
Jenn-Chuan Chern, Public Construction Commission

Earthquake Engineering Research on Reinforced Concrete Buildings in Taiwan 10:00 AM
Shyh-Jiann Hwang, Professor, National Taiwan University, Taipei, Taiwan

Recent Research on Concrete Bridges in Taiwan 10:30 AM
Kuo-Chun Chang, Professor and Chair of Civil Engineering Department, National Taiwan University, Taipei, Taiwan

Design and Construction of Taipei 101—The World’s Tallest Building 11:00 AM
Shaw-Song Shieh, Chairman of the Board, Evergreen Consulting Engineering, Taipei, Taiwan

Design and Construction of Concrete Bridges and Viaducts for Taiwan High-Speed Rail Project 11:30 AM
T.C. Kao, Adjunct Professor, National Taiwan University, Taipei, Taiwan
Monday, November 3, 2008
9:00 AM - 12:00 PM

Research in Progress

Sponsored by ACI Committee 123, Research and Current Developments

Session Co-Moderators: Matthew D’Ambrosia
Project Manager
CTL Group
Skokie, IL

Aleksandra Radlinska
Assistant Professor
Villanova University
Villanova, PA

This session will feature presentations of original unpublished results from ongoing research projects and leading-edge concrete technology and research throughout the world.

Fiber Reinforcement for Crack Control in High-Strength Prestressed Precast Segmental Concrete Bridge Structures
Jimmy Susetyo, PhD Candidate, University of Toronto, Toronto, ON, Canada; and Paul Gauvreau and Frank Vecchio, University of Toronto

Test of Interior Post-Tensioned Slab-Rectangular Column Connections
Sunendro Aris Himawan, PhD Candidate, Nanyang Technological University, Singapore; Susanto Teng, Nanyang Technological University

Seismic Response of Reinforced Concrete Buildings with Floor Diaphragm Openings
Anamika Rathore, Design Engineer, Optimum Engineering, Glen Carbon, IL; Nader Panahshahi, Southern Illinois University; and Mohamed Al Harash, Frontec Solutions

Characterization of Thermal Properties of PCC Pavements
Hak-Chul Shin, Professor, Louisiana State University, Baton Rouge, LA; and Yoonseok Chung and Upender Kodide, Louisiana State University
Research in Progress (cont.)

C-223

Cross Section Stresses Due to Restrained Shrinkage
in Concrete Deck Overlays
Luis Orta, PhD Candidate, University of Western Ontario, London, ON, Canada; and F. Michael Bartlett, University of Western Ontario

Measuring the Early-Age and Long-Term Shrinkage
of Hydraulic Cement Concrete
Richard Weyers, Professor, Virginia Tech, Blacksburg, VA;
Andrei Ramniceanu, Virginia Tech; and David Mokare and Michael Sprinkel, Virginia Transportation Research Council

Internal Damage Assessment in Concrete Subjected
10:30 AM
to High Hydrostatic Pressure
Eric Landis, Assistant Professor, University of Maine, Orono, ME;
and Cedric Poinard, Yann Malecot, and Laurent Daudeville,
Domaine Universitaire

Shrinkage-Reducing Admixtures: Interactions with
10:45 AM
Concrete's Pore Solution and Effects on Cement Hydration
Farshad Rajabipour, Assistant Professor, University of Hawaii,
Honolulu, HI; Ethan Smith and Joseph Lichwa, University of Hawaii;
and W. Jason Weiss, Purdue University

Electrokinetic Transport in Concrete
11:00 AM
Paul Mlakar, Chief, U.S. Army Research and Development Center,
Vicksburg, MS; and M. McInerney, Charles Weiss and J. Peters,
U.S. Army Engineer Research and Development

Doubling Concrete Service Life: What’s the VERDiCT?
11:15 AM
Dale Bentz, Chemical Engineer, National Institute of Standards and Technology, Gaithersburg, MD; and Kenneth Snyder, Max Peltz, and Jeff Davis, National Institute of Standards and Technology
Research in Progress (cont.)

Water Management on Internal Curing 11:30 AM
Mauricio Lopez, Assistant Professor, Pontificia Universidad Catolica de Chile, Santiago, Chile; and Alvaro Paul and Jalil Espinoza, Pontifica Universidad Catolica de Chile

Mitigating Alkali-Silica Reaction in Hardened Concrete 11:45 PM
Anthony Bentivegna, Master’s Candidate, University of Texas at Austin, Austin, TX; and Kevin Folliard, University of Texas at Austin
Monday, November 3, 2008
9:00 AM - 12:00 PM

Session Honoring Professor David Darwin, Part 1  C-230
Sponsored by ACI Committee 408, Development and Splicing of Deformed Bars

Session Co-Moderators:  Emmanuel K. Attiogbe
Director Technical Services
BASF Admixtures
Cleveland, OH

Adolfo Matamoros
Assistant Professor
University of Kansas
Lawrence, KS

This session will showcase historical and recent developments in areas of research where Professor Darwin has made significant contributions to the practice of reinforced concrete design. Topics will include bond and development of reinforcement, cracking, durability, corrosion, finite element analysis, and fracture mechanics.

The Influence of Cracks on Durability  9:00 AM
W. Jason Weiss, Professor, Purdue University, West Lafayette, IN

Construction of Low-Cracking Bridge Decks  9:30 AM
JoAnn Browning, Associate Professor, University of Kansas, Lawrence, KS

Evaluation of Corrosion Testing Methods  10:00 AM
Javier Balma, Engineer, Walter P Moore & Associates, Kansas City, MO

Improving our Understanding and Ability to Measure the Potential for Corrosion of Reinforcing Bars in Reinforced Concrete  10:30 AM
Carl Locke, Emeritus Dean and Professor, University of Kansas, Lawrence, KS

Bar Details, Bond Splitting, Delaminations, and Corrosion  11:00 AM
Carl Peterson, Senior Consultant, Wiss, Janney, Elstner and Associates Inc., Chicago, IL

Interaction of Cracking and Corrosion  11:30 AM
Surendra P. Shah, Professor, Northwestern University, Evanston, IL

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Monday, November 3, 2008
12:00 PM - 2:00 PM

✓ Student Lunch

$25 U.S. per person; FREE to students who preregister
Sponsored by the ACI Missouri Chapter and ACI Committee E801, Student Activities

Speaker: Daniel Baker
President
Baker Concrete Construction, Inc.
Monroe, OH

Topic: Leadership 20/20—Up and Coming Leaders

Join other ACI members and students for the announcement of the Student Competition results. Following lunch, featured speaker Dan Baker, President of Baker Concrete Construction, will give a presentation on Leadership 20/20—Up and Coming Leaders.

PREREGRISTRATION IS REQUIRED TO ATTEND. Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.

✓ = Separate fee required
Sonic Systems for Concrete Testing Demonstration

Germann Instruments will be demonstrating the following:

- DOCter impact-echo for thickness and flaw detection
- s’MASH impulse response for rapid screening of flaws
- MIRA tomography 3D system for location of internal defects
Convention Session Moderator Question and Answer

Session Moderator: Lauren E. Mentz
Event Planner
American Concrete Institute
Farmington Hills, MI

This is a perfect opportunity to learn new ideas and techniques for planning and organizing your session. All potential and current moderators for upcoming convention sessions are strongly encouraged to attend this informational question and answer session.
Monday, November 3, 2008
2:00 PM - 5:00 PM

Accelerated Bridge Design and Construction
Sponsored by ACI Committee 343, Concrete Bridge Design

Session Moderator: Riyadh Hindi
Associate Professor
Bradley University
Peoria, IL

This session will focus on the most recent developments and advancements in design and/or construction of accelerated concrete bridges. The session will cover case studies and research including innovations used in the design and/or construction methods and procedures in a design-build project. This session will be suitable for researchers, practitioners, and students to learn of the state-of-the-art rapid bridge practices.

Rapid Construction of Modular Innovative Bridge Substructure 2:00 PM
Amir Mirmiran, Professor and Chair, Florida International University, Miami, FL; and Yilei Shi and Bin Li, Florida International University

Rapid Bridge Replacement, Elk Creek Tunnel Bridges 2:22 PM
Scott Nettleton, Engineering Manager, TY Lin International, Salem, OR; and Justin Doornink, TY Lin International

Experimental Seismic Testing of Precast U-Girder, Cast-in-Place Bent Cap Bridge Joints 2:45 PM
Kevin Almer, Graduate Student, University of Nevada-Reno, Reno, NV; and David Sanders, University of Nevada-Reno

Accelerated Design and Construction of the Russian River Bridge Replacement 3:07 PM
Ofelia Alcantara, Deputy Division Chief, Structure Design, California Department of Transportation, Sacramento, CA; and Tariq Masroor, Ahmed Ibrahim, and Linan Wang, California Department of Transportation

Accelerated Bridge Construction of Arch Bridge Using Vertically-Erected Steel-Concrete Composite Components 3:30 PM
Zhixiang Zhuo, Professor, Chongqing Jiaotong University, Chongqing, China; and Fang Li, and Roy Imsben, East & West Engineering Technologies, Inc.
Monday, November 3, 2008
2:00 PM - 5:00 PM

Accelerated Bridge Design and Construction (cont.)

A Study of Precast Bridge Columns with Innovative Plastic Hinges with Built-In Elastomers
M. Saiid Saiidi, Professor, University of Nevada-Reno, Reno, NV; and David Sanders and Sarira Motaref, University of Nevada-Reno

Fast Track Construction of Bridge Decks
Mohsen Issa, Professor, University of Illinois at Chicago, Chicago, IL

Rehabilitation of the Reynosa-Pharr International Bridge
Rodrigo Sanchez, Engineer, BASF Admixtures, Inc., Cleveland, OH; Robert Gulyas, BASF Admixtures Inc.; and Fernando Ayala, BASF Construction Chemicals, LLC
Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring
Sponsored by ACI Committee 437, Strength Evaluation of Existing Concrete Structures

Session Co-Moderators:  J. Gustavo Tumialan
                        Senior Staff Engineer
                        Simpson Gumpertz & Heger Inc.,
                        Waltham, MA

                        Antonio Nanni
                        Professor and Chair
                        University of Miami
                        Coral Gables, FL

This session will present case studies of structural evaluation by means of in-situ load testing and structural monitoring of concrete structures, such as parking garages, buildings, bridges, and stadiums. The topics will include, but are not limited to, assessment of structural performance, validation of strengthening strategies, and analytical modeling to improve understanding of overall structural performance.

Monitoring a Soil-Nail Wall—Not as Easy as it Looks on Paper  2:00 PM
Andrew Budek-Schmeisser, Assistant Professor, New Mexico Institute of Mining and Technology, Socorro, NM; and Barbara Budek-Schmeisser, New Mexico Institute of Mining and Technology

In-Situ Evaluation of Two Concrete Slab Systems  2:30 PM
Nestore Galati, Design Engineer, Structural Group Inc., Elkridge, MD; J. Gustavo Tumialan, Simpson Gumpertz & Heger Inc.; Antonio Nanni, University of Miami; Tarek Alkhrdaji, Structural Group Inc.; and Paul L. Ziehl, University of South Carolina

Load Testing a Historic Monument  3:00 PM
Frederick Heidbrink, Associate Principal, Wiss, Janney, Elstner Associates Inc., Northbrook, IL
Monday, November 3, 2008
2:00 PM - 5:00 PM

Evaluation of Existing Structures by Means of In-Situ Load Testing and Structural Monitoring (cont.)

Evaluation of the Lateral Load-Resisting System of a Stadium Structure
Stan Zagajeski, Staff Consultant, Simpson, Gumpertz & Heger Inc., Waltham, MA; J. Gustavo Tumialan and Matthew Sherman, Simpson, Gumpertz & Heger Inc.; and Nestore Galati, Structural Group Inc.

An Italian Perspective of Load Testing of Concrete Structures: Case Studies
Paolo Casadei, Research Engineer, SGM Experimental Engineering, Milano, Italy; and Filippo Masetti, Simpson, Gumpertz & Heger Inc.

Direct Measurement of Girder Reactions in Bridge Load Tests
Christina O’Neill, Graduate Student, University of Florida, Gainesville, FL; H. R. Trey Hamilton III, University of Florida; and Marcus Ansley and Garry Roufa, Florida Department of Transportation
Recent advances in precast concrete pavements technology offers a viable option for rapid repairs ideally suited for urban applications. This session will highlight successes in recent precast concrete as well as precast, prestressed concrete projects and the Federal Highway Administration’s effort in promoting the technology.

Introduction 2:00 PM

Vellore Gopalaratnam, Professor of Civil Engineering, University of Missouri-Columbia, Columbia, MO

Precast Pavements—Current Practice, Future Directions 2:05 PM

Shiraz Tayabji, Regional Manager, Fugro Consultants Inc., Ellicott City, MD

Summary of Recent Precast Prestressed Concrete Pavement Projects 2:30 PM

Dave Merritt, Project Manager, City of Bettendorf, Austin, TX; and Samuel Tyson, Federal Highway Administration

Project Development, Construction, and Performance of a Precast Post-Tensioned Panel Pavement 2:55 PM

Eric Krapf, Project Manager, MoDOT, Jefferson City, MO; and John Donahue, MoDOT

Monitoring and Performance Evaluation of an Innovative Precast Prestressed Concrete Pavement System 3:20 PM

Vellore Gopalaratnam, Professor of Civil Engineering, University of Missouri-Columbia, Columbia, MO; and Grant Luckenbill, HDR Engineering
Recent Advances in Precast Concrete Pavements (cont.)  C-240

Overnight Installations of Three-Dimensional Intersections, Bridge Approaches, and Intermittent Repair Slabs  3:45 PM

Peter Smith, Vice President of Market Development and Product Engineering, The Fort Miller Co. Inc., Schuylerville, NY

Precast Bridge Approach Pavement, Iowa Projects  4:10 PM

Dean Bierwagen, Methods Engineer, IowaDOT, Ames, IA; and Brent Phares and Terry Wipf, Iowa State University

Question and Answer  4:35 PM

Vellore Gopalaratnam, Professor of Civil Engineering, University of Missouri-Columbia, Columbia, MO
Session Honoring Professor David Darwin, Part 2

Sponsored by ACI Committee 408, Development and Splicing of Deformed Bars

Session Co-Moderators: Emmanuel K. Attiogbe
Director Technical Services
BASF Admixtures
Cleveland, OH

Adolfo Matamoros
Assistant Professor
University of Kansas
Lawrence, KS

This session will showcase historical and recent developments in areas of research where Professor Darwin has made significant contributions to the practice of reinforced concrete design. Topics will include bond and development of reinforcement, cracking, durability, corrosion, finite element analysis, and fracture mechanics.

**Bond Strength of High-Yield Strength Reinforcement**  
2:00 PM  
Paul S. Zia, Distinguished University Professor, North Carolina State University, Raleigh, NC

**Bond Behavior of High Relative Rib Area Bars**  
2:30 PM  
Oan Chul Choi, Professor, Soong Sil University, Seoul, Korea

**Incorporating the Use of Fracture Mechanics in Modeling of Bond Behavior**  
3:00 PM  
James Cox, Engineer, Sandia National Laboratories, Albuquerque, NM

**Fundamentals of Bond in Reinforced Concrete**  
3:30 PM  
Rolf Eligehausen, Professor, University of Stuttgart, Stuttgart, Germany

**ACI 318-08 Provisions for Developing Reinforcement Using Headed Bars**  
4:00 PM  
Michael Thompson, Assistant Professor, University of Wisconsin-Platteville, Platteville, WI

**Bond Strength of FRP Hooked Bars**  
4:30 PM  
Theresa Ahlborn, Assistant Professor, Michigan Technological University, Houghton, MI
Use of Technology with Teaching

Sponsored by the ACI Educational Activities Committee

Session Co-Moderators: Daniel Jansen
Associate Professor
California Polytechnic State University
San Luis Obispo, CA

Charles Pierce
Associate Professor
University of South Carolina
Columbia, SC

This session will cover an assortment of modern tools available to improve teaching. Speakers will describe their own experiences with technology in the classroom and describe the benefits and pitfalls. The target audience includes educators, students, and industrial professionals wishing to incorporate new technology in the classroom or in professional presentations.

Welcome and Introduction 2:00 PM
Charles Pierce, Associate Professor, University of South Carolina, Columbia, SC

Walter P Moore Talk: Partnering University and Industry for an Applied Concrete Based Curriculum 2:05 PM
Heather Brown, Associate Professor, Middle Tennessee State University, Murfreesboro, TN

An Overview of Learning Styles and Technology 2:35 PM
Tools for Teaching
Daniel Jansen, Associate Professor, California Polytechnic State University, San Luis Obispo, CA

Motivating Freshman and Sophomores with Case Studies, Clickers, and Demos 3:00 PM
W. Jason Weiss, Professor, Purdue University, West Lafayette, IN

Better than Blackboard: Teaching Engineering with Interactive Technology 3:30 PM
Thomas Descoteaux, Director, Master’s in Civil Engineering Program, Norwich University, Northfield, VT; and Alexander T. Messinger, Joseph F. Miller, and Scott Sabol, Norwich University
Classroom Performance Systems (Clickers) to Stimulate Student Participation in Large Classes

Neeraj Buch, Associate Professor, Michigan State University, East Lansing, MI

PowerPoint: Friend or Foe?

Fred Meyer, Associate Professor and Director of Civil Engineering, U.S. Military Academy, West Point, NY
All registered convention attendees are invited to attend the Women in ACI Reception. This long-standing ACI tradition is a great opportunity to get to know other women in the concrete industry through networking and socializing. A hosted bar and light hors d’oeuvres will be served.

Monday, November 3, 2008
5:00 PM - 6:00 PM

Women in ACI Reception

R-AUBERT
University of Texas Reception

The Civil, Architectural & Environmental Engineering Department at the University of Texas is holding a reception for graduates, faculty, and friends. Catch up with former classmates and colleagues following a day of meetings over appetizers and cocktails from the cash bar.
Dinner in Honor of Luke Snell

$75 U.S. per person

Sponsored by the ACI Missouri Chapter

Over the course of 40 years, Luke Snell has been a driving force within the concrete industry. Named a Fellow of ACI, a Distinguished Professor of Arizona State University, and a Professional Engineer in three states, his concrete research and teaching experience has been influential to many. Join other ACI attendees in celebrating Luke Snell’s life-long achievements and strong dedication to the ACI Missouri Chapter during this honorary dinner.

Guests may choose one of the following entrees at the time of registration:

1) Seared 10 oz grilled ribeye with smoked onion ragout, gratin potato, and cabernet sauce and seasonal vegetables.
2) Penne pasta with baby spinach, roasted garlic, cremini mushrooms, sweet peas, and reggiano cream.
3) Roasted half chicken, roast chicken jus, mashed red bliss potatoes, carrots, and garlic spinach.

All served with:
Baby green oak, red oak, frisee, cucumber wrapper, red and yellow tomatoes, and sweet tomato vinaigrette salad and chocolate mint brûlée with mini biscotti dessert

Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.

☑ = Separate fee required
123 Forum: Should Sustainability be Policy Driven?
Sponsored by ACI Committee 123, Research and Current Developments

Session Moderator: Mohammad S. Khan
Senior Vice President
Professional Service Industries, Inc.
Herndon, VA

Following its long standing tradition, ACI Committee 123 brings industry experts together again to debate on another subject and to share their views with ACI patrons.

Introduction 7:30 PM
Mohammad S. Khan, Senior Vice President, Professional Service Industries, Inc., Herndon, VA

Panelist Presentations 7:35 PM
The debate this time is whether sustainability should be policy driven. Sustainable materials and construction have received considerable attention during the last several years and significant accomplishments have been made. However, is our progress keeping pace with the ever growing needs of a sustainable development? Do we realize the importance of sustainable development? Are we adequately addressing environmental concerns related to the production of portland cement and depleting natural raw resources? Are we making the best use of supplementary cementitious materials? Are we exploring innovative aggregate types? Are we using nonpotable water sources for making and curing concrete? Are we improving the performance of substandard raw materials through innovative uses of chemical admixtures? If the answer to any or all of these questions is “no,” should sustainability be mandated and policy driven? Our panelists will address these and many other questions you might have.

Questions, Answers, and Discussion 8:25 PM

✓ = Separate fee required
Holcim Plant Tour
$45 U.S. per person

Enjoy a tour of the Holcim Cement Plant. Opening in 2009, the Holcim Cement Plant is soon to be one of the largest producers of portland cement, estimated to produce over 4,000,000 metric tons of cement a year. No shorts are allowed on this tour, shirts/blouses with sleeves must be at least four inches in length, and you must wear closed-toe shoes. No high heels are allowed. A 20-minute safety video must be viewed before the tour begins. This tour includes a boxed breakfast. Departure for this tour will be located at the St. Charles Street exit at the Renaissance Grand.

✓ = Separate fee required
Advances in the Fire Design of Concrete Structures

Sponsored by Joint ACI/TMS Committee 216, Fire Resistance and Fire Protection of Structures

Session Co-Moderators: Venkatesh Kumar Kodur
Professor
Michigan State University
East Lansing, MI

Long Phan
Research Structural Engineer
National Institute of Standards and Technology
Gaithersburg, MD

Provision of appropriate fire safety measures to structural members is a major safety requirement in building design because fire represents a significant hazard in built infrastructure. The last few years have witnessed an increasing focus toward the development of performance-based approaches for the design of structures. This trend has also influenced the research and development activity in the fire safety area, and there have been concerted efforts in characterizing the fire behavior and in developing engineering approaches for fire safety design of concrete structures. In this session, attendees will be presented with recent research findings and studies on the fire performance of concrete (reinforced and prestressed) and masonry systems.

Introduction to ACI Committee 216 and Current Committee Activities
Venkatesh Kumar Kodur, Professor, Michigan State University, East Lansing, MI

Codes, Loads, and Fire Endurance
William Gamble, Professor, University of Illinois, Urbana, IL

Performance of High-Strength Concrete in Fire
Long Phan, Structural Engineer, National Institute of Standards and Technology, Gaithersburg, MD

Damage Mechanisms and Repairability of High-Strength Concrete Exposed to Elevated Temperatures
Kerr Gwin, Consulting Engineer, Gwin, Dobson & Foreman Inc., Altoona, PA; and Wilasa Vichit-Vadakan, Siam Cement Group
Tuesday, November 4, 2008
9:00 AM - 12:00 PM

Advances in the Fire Design of Concrete Structures (cont.)  

Experimental Studies on the Response of Restrained RC Beams Exposed to Design Fires  
Monther Dwaikat, Student, Michigan State University, East Lansing, MI; and Venkatesh Kumar Kodur, Michigan State University

Assessment of Fire-Affected Highway Structures after the MacArthur Maze Fire and Collapse and the I-5 Tunnel Fire in California  
Kent Sasaki, Unit Manager and Principal, Wiss, Janney, Elstner Associates, Inc., Emeryville, CA; and Terrence Paret, Wiss, Janney, Elstner Associates, Inc.

Elevated Temperature Performance of Geopolymer Concretes  
Jay Sanjayan, Associate Professor, Monash University, Melbourne, Australia

Compressive Strength and Young’s Modulus Relationships for Concrete under Elevated Temperatures  
Yahya Kurama, Associate Professor, University of Notre Dame, South Bend, IN; and Adam Knaack and David J. Kirkner, University of Notre Dame.
Industry Acceptance of SCC

Sponsored by ACI Committee 237, Self-Consolidating Concrete

Session Moderator: Joseph Daczko
Product Line Manager
BASF Construction Chemicals
Hiram, OH

This session will place before all attendees the level of acceptance of SCC in the concrete industry. Presentations will be given from various disciplines to provide an overall view of the current state of SCC usage. In addition to the current state of SCC use, consideration of some of the obstacles to further acceptance will be discussed.

The Current State of SCC Standardization 9:00 AM
Mark Bury, Senior Product Manager, BASF Admixtures Inc.,
Beachwood, OH

Acceptance of SCC—DOT Perspective 9:25 AM
M. Lwin, Director, FHWA DOT, Arlington, VA

Acceptance of SCC—Engineer’s Perspective 9:50 AM
John Gruber, Principal Engineer, Bechtel, Frederick, MD

Acceptance of SCC—Contractor’s Perspective 10:15 AM
Lloyd Keller, Director, EllisDon Corporation, Mississauga, ON, Canada

Acceptance of SCC—Ready Mix Supplier Perspective 10:40 AM
Colin L. Lobo, Vice President of Engineering, National Ready Mixed Concrete Association, Silver Spring, MD

Acceptance of SCC—Precast Producer Perspective 11:05 AM
Dean Frank, Director of Quality Programs, Prestressed Concrete Institute, Chicago, IL

Tuesday, November 4, 2008
9:00 AM - 12:00 PM
Innovative Bridge Decks
Sponsored by the ACI Missouri Chapter

Session Co-Moderators: Abdeldjelil Belarbi
Distinguished Professor
Missouri University of Science and Technology
Rolla, MO

Vellore Gopalaratnam
Professor of Civil Engineering
University of Missouri-Columbia
Columbia, MO

This session provides the latest in research and practice using advance materials, including FRP, as well as new techniques for bridge deck design and performance evaluation. Furthermore, this session will provide bridge engineers and contractors with knowledge of the use of new techniques and advanced materials to extend the life of RC bridge structures including deck slabs.

Introduction  9:00 AM
Abdeldjelil Belarbi, Distinguished Professor, Missouri University of Science and Technology, Rolla, MO

Design and Construction of Innovative GFRP RC Bridge Decks with Extended Service Life  9:05 AM
Brahim Benmokrane, Professor, University of Sherbrooke, Sherbrooke, QC, Canada; and Sylvie Goulet, E. El-Salakawy, and David Nadeau, University of Sherbrooke

Challenges and Opportunities in the Design and Implementation of FRP-Reinforced Concrete Bridge Deck Slabs  9:30 AM
Vellore Gopalaratnam, Professor of Civil Engineering, University of Missouri-Columbia, Columbia, MO; and Abdeldjelil Belarbi, Missouri University of Science and Technology

MoDOT Steel Free Hybrid Bridge Deck Design  9:55 AM
John Finke, Professor, Jacobs Civil Inc., Saint Louis, MO; and Steve Yordy, Jacobs Engineering Group, Inc.
Innovative Bridge Decks (cont.)

Canadian and Japanese Experience with Steel

Free-Bridge Decks
Aftab Mufti, Professor, ISIS Canada, Winnipeg, MB, Canada; Gamil Tadros, ISIS Canada; Baidar Bakht, JMBT Structures Research Inc.; and Nemkumar Banthia, University of British Columbia

Structural Response of Bridge Girders and Deck Systems
John Myers, Associate Professor, Missouri University of Science and Technology, Rolla, MO; and Dave Holdener, University of Missouri Science and Technology

Life Cycle Cost of RC Bridge Decks
Gamil Tadros, Structural Consultant, ISIS Canada, Winnipeg, MB, Canada; Baidar Bakht, JMBT Structures Research Inc.; and Aftab Mufti and Gordon Spark, ISIS Canada

Question and Answer
Abdeldjelil Belarbi, Distinguished Professor, Missouri University of Science and Technology, Rolla, MO
Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 1
Sponsored by ACI Committees 118, Use of Computers, and 447, Finite Element Analysis of Reinforced Concrete Structures

Session Co-Moderators: Ryan Riehle
President/CEO
BuildWays Corporation
Pittsburgh, PA

John Jakovich
Systems Manager and Senior Structural Analyst
DYK Incorporated
El Cajon, CA

Allan Bommer
Chief Design Engineer, Structural Concrete Products
Bentley Systems, Inc.
Seattle, WA

Finite element analysis case studies and methods will be presented demonstrating how finite element analysis is used today by practicing engineers to design concrete structures. Topics presented will provide attendees with practical solutions and techniques where finite element analysis can be applied for the design and analysis of various concrete structures such as liquid storage tanks, slabs, shear walls, dams, and more. Contractors, engineers, public agency employees, and structural engineers are encouraged to attend this session.

Snap Through of a Shallow Spherical Dome of a Prestressed Concrete Tank
9:00 AM
Bryan Strohman, Engineer, Simpson, Gumpertz & Heger Inc., Waltham, MA; and Atis Liepins, Simpson, Gumpertz & Heger Inc.

The Design of Outer Concrete Containments of LNG Tanks for Operation and Hazard Scenarios
9:30 AM
Josef Roetzer, Senior Engineering Manager, Dywidag International, Munich, Germany; and Hamish Douglas, Dywidag International
Tuesday, November 4, 2008
9:00 AM - 12:00 PM

Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 1 (cont.)

FE Modeling and Dynamic Analysis of Above-Ground Liquid Containing Tanks
Halil Sezen, Assistant Professor, Ohio State University, Columbus, OH; and Adem Dogangun and Ramazan Livaoglu, Karadeniz Technical University

Design Moments Determination for Slabs and Walls for Prestressed Concrete Liquid Storage Tanks Using Finite Element Analysis
John Jakovich, Systems Manager and Senior Structural Analyst, DYK Incorporated, El Cajon, CA

Application of Fracture Mechanics to the Nonlinear Dynamic Analysis of Concrete Dams
Victor Saouma, Professor, University of Colorado, Boulder, CO

Finite Element Software for the Service Life Prediction of Concrete Structures
Kamel Henchi, Director of Software Development, SIMCO Technologies, Inc., Quebec, QC, Canada; Jacques Marchand, Laval University; and Eric Samson, SIMCO Technologies Inc.
Realistic Data for Realistic Expectations

Sponsored by ACI Committee 214, Evaluation of Results of Tests Used to Determine the Strength of Concrete

Session Co-Moderators: Kal Hindo
Principal
Kal R. Hindo & Associates
Clearwater, FL

David J. Akers
Senior Engineer
California Nevada Cement Association
San Diego, CA

This session will educate contractors, engineers, material suppliers, and public agencies in the proper use of statistics to evaluate concrete test results.

Living with the Slump Test Variations 9:00 AM
David Richardson, Associate Professor, Missouri University of Science and Technology, Rolla, MO; and Luke M. Snell, DEW School of Construction, Arizona State University

Statistical Analysis of Air Content Data 9:25 AM
Eugene Takhtovich, Project Manager, HAKS, Long Island City, NY; and Paul St. John, St. John Consulting Services

Analysis of Variation in Drying Shrinkage Test Data 9:50 AM
David J. Akers, Senior Engineer, California Nevada Cement Association, San Diego, CA

Variability of Rapid Chloride Permeability Data 10:15 AM
Casimir Bognacki, General Manager of Material Engineering Division, Port Authority of New York & New Jersey, Jersey City, NJ

Laboratory Proficiency Report/Washington, DC Area 10:40 AM
Colin L. Lobo, Vice President of Engineering, National Ready Mixed Concrete Association, Silver Spring, MD

Variability in Concrete Production Test Data 11:05 AM
James Shilstone Sr., Concrete Engineer, Shilstone Companies, Irving, TX; and Mark Cheek, Beta Testing & Inspection LLC
Realistic Data for Realistic Expectations (cont.)

Drying Shrinkage—Myth or Reality

Alfred Kaufman Jr., Manager Technical Services, ConcreteRx, Pt.
Richmond, CA; and Bob Foley, Cemex Ready Mix
Tuesday, November 4, 2008
9:00 AM - 12:00 PM

Slag Cement Concrete Developments

Sponsored by the ACI Missouri Chapter

Session Co-Moderator: John J. Myers
Associate Professor
Missouri University of Science and Technology
Rolla, MO

Abdeldjelil Belarbi
Distinguished Professor
Missouri University of Science and Technology
Rolla, MO

This session will focus on slag cement concrete developments, with presentations on slag cement in concrete products.

Introduction 9:00 AM
John J. Myers, Associate Professor, Missouri University of Science and Technology, Rolla, MO

De-Icer Scaling Resistance of Ternary Concrete Mixtures 9:05 AM
Containing Slag Cement
Jan R. Prusinski, Executive Director, Cement Council of Texas, Hurst, TX

The Effect of Ground Granulated Blast Furnace Slag (Slag Cement) on the Drying Shrinkage of Concrete—A Critical Review of Literature 9:30 AM
Douglas R. Hooton, Professor, University of Toronto, Toronto, ON, Canada; Jan R. Prusinski, Cement Council of Texas; Kyle Stanish, Walker Restoration Consultants; and Juan Angel, University of Toronto

Structural Mass Concrete Featuring Slag Cement 9:55 AM
Darrell F. Elliott, Manager of Technical Services, Buzzi Unicem USA, La Place, LA

Use of Slag Cement in Concrete Products 10:25 AM
Gordon McLellan, Technical Manager, Hanson Slag Cement, Cape Canaveral, FL
Slag Cement Concrete Developments (cont.)

High Volume Slag Blended Cement Concrete for High-Density Concrete at Elevated Temperatures
Corina-Maria Aldea, Senior Materials Engineer, AMEC, Hamilton, ON, Canada; and Bruce J. Cornelius, John Balinski, Barry Shenton, and James Sato, AMEC

Solar Reflectance of Slag Cement Concretes
Martha VanGeem, Principal Engineer, CTL Group, Skokie, IL

The Effect of Temperature on the Rate of Strength Development of Slag Cement Concrete
Marios Soutsos, Lecturer of Civil Engineering, University of Liverpool, Liverpool, UK; and S. Millard, John Bungey, and S. Barnett, University of Liverpool
✓ Architectural Walking Tour

$8 U.S. per person

This tour departs from the AIA Bookstore located at 911 Washington Avenue across from the Concourse Building

This 90-minute walking tour begins with a walk down Washington Avenue, through the historical loft district; and past the Merchandise Mart, The Roberts Orpheum Theater Building, and The Old Post Office. Other notable sites on this tour include The Chemical Building, The Union Trust Company, The Wainwright Building, and The Old Courthouse. Comfortable walking shoes are recommended.

✓ = Separate fee required
Contractors' Day Lunch

$35 U.S. per person

Hosted by the ACI Missouri Chapter and the ACI Construction Liaison Committee

Speaker: Jeff Steinhart
Vice President of Engineering
Anheuser-Busch
St. Louis, MO

Topic: Innovation in the Construction Industry

Join other ACI convention attendees for the Contractors' Day Lunch. The featured speaker will be Jeff Steinhart, Vice President of Engineering for Anheuser-Busch. Jeff Steinhart is responsible for leading the Engineering and Environmental Affairs department for the company’s domestic and international beer operations and the major capital projects for its subsidiaries.

Steinhart will be discussing innovation in the construction industry and will cover topics such as:

- Background on Anheuser-Busch
- The Roles of the Owner and Contractor
- A-B's Expectation of the Contractor Community
- Lessons Learned on Concrete
- Innovations in A/C/S
- Trends we need to be able to address

Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.

✓ = Separate fee required
Several factors should be considered when construction tolerances are set. The maximum-permitted variations should not unduly affect structural strength and in-service performance. The tolerances should be understood, communicated, and measured during construction and inspection, and they should be achievable. It serves no purpose to set tolerances tighter than those that can be achieved on typical buildings with a normal standard of care unless there is an absolute need for setting tighter tolerances and a willingness to pay for the extra effort needed to meet those tolerances. As-built data and job-site examples presented in this session address all three of these considerations.

Ensure Safety, But with Achievable and Understandable Tolerances

Ward R. Malisch, Technical Director, American Society of Concrete Contractors, Northville, MI

Are Current Stair Tolerances Achievable?

Heather Brown, Associate Professor, Middle Tennessee State University, Murfreesboro, TN

Are Current ADA Tolerances Achievable?

W. Calvin McCall, Senior Materials Engineer, Concrete Engineering Specialists, Charlotte, NC; and Scott Tarr, Concrete Engineering Specialists

The ASCC Tolerance Manual for Concrete Buildings

Bruce Suprenant, Senior Construction Engineer, Concrete Engineering Specialists, Boulder, CO
Currently there are two types of elevated concrete pedestal tanks: concrete pedestal supporting a steel vessel (known as a composite tank), and concrete pedestal supporting a concrete vessel. This session will review the history and current practice of designing and constructing such tanks and present an overview of a recently completed ACI report that is a guide for design and construction of elevated concrete pedestal tanks.

Introduction to Elevated Concrete Pedestal Tanks 2:00 PM
Charles S. Hanskat, Principal Engineer, Hanskat Consulting, Northbrook, IL

Design of Composite Elevated Water Tanks 2:15 PM
Rolf Pawski, Principal Engineer, Landmark Structures, Wheaton, IL

Construction of Elevated Steel Tanks with Concrete Pedestals 2:45 PM
Kevin Binder, Engineering Supervisor, CBI Constructors Inc., Clive, IA

Design of Elevated Concrete Tanks 3:15 PM
Jeffrey Ward, Chief Structural Engineer, Crom Corporation, Gainesville, FL

Construction of Elevated Concrete Tanks 3:45 PM
Kenneth Harvey, Vice President Engineering, Crom Corporation, Gainesville, FL

Overview of Committee 371 Report on Concrete Pedestal Supported Tanks 4:15 PM
Atis Liepins, Senior Principal, Simpson, Gumpertz & Heger Inc., Waltham, MA
Tuesday, November 4, 2008
2:00 PM - 5:00 PM

Open Paper Session
Sponsored by ACI Committee 123, Research and Current Developments

C-223

Session Moderator: Narayanan Neithalath
Assistant Professor
Clarkson University
Potsdam, NY

This Open Paper Session is a forum for presenting recent technical information that could not be scheduled into other convention sessions.

Introduction 2:00 PM
Narayanan Neithalath, Assistant Professor, Clarkson University, Potsdam, NY

Development of Noncontact Ultrasonic Imaging for Concrete Elements 2:02 PM
Kerry Hall, Student, University of Illinois, Urbana, IL; and John Popovics, University of Illinois

Volume Change and Cracking in Internally-Cured Mixtures Made with Saturated Lightweight Aggregate Under Sealed and Drying Conditions 2:25 PM
Ryan Henkensiefken, Graduate Student, Purdue University, West Lafayette, IN; Tommy Nantung, Indiana DOT; Dale Bentz, National Institute of Standards and Technology; and W. Jason Weiss, Purdue University

Deflection Control of Slabs Based on Reinforcement Strength 2:48 PM
Admasu Desalegne, Student, University of Alberta, Edmonton, AB, Canada; Adam Lubell, University of Alberta; and Jijun Tang, Jacobs Engineering Group Canada

Properties and Potential Use of Cement Kiln Dust 3:10 PM
Sulapha Peethamparan, Assistant Professor, Clarkson University, Potsdam, NY; and Jan Olek, Purdue University

Self-Consolidating Pervious Concrete Overlay Construction at the MnROAD Test Facility 3:32 PM
John Kevern, Assistant Professor of Civil Engineering, University of Missouri, Kansas City, MO; and Kejin Wang and Vernon Schafer, Iowa State University

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Tuesday, November 4, 2008
2:00 PM - 5:00 PM

Open Paper Session (cont.)

Volumetric Stability of Concrete Using Recycled Concrete Aggregates
Yogini Deshpande, Post-Doctorial Researcher, Michigan Technological University, Houghton, MI; and Jacob Hiller, Michigan Technological University

Partial Confinement Utilization for Ultimate Analysis of Circular Concrete Columns
Ahmed Abd El-Fattah, Graduate Student, Department of Civil Engineering, Kansas State University, Manhattan, KS; and Hayder Rasheed and Asad Esmaeily, Kansas State University

Evaluation of GFRP Bar Bond Strength
Tarek Bashandy, Assistant Professor, Helwan University, Giza
Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 2

Sponsored by ACI Committees 118, Use of Computers, and 447, Finite Element Analysis of Reinforced Concrete Structures

Session Co-Moderators:

John Jakovich
Systems Manager and
Senior Structural Analyst
DYK Incorporated
El Cajon, CA

Allan Bommer
Chief Design Engineer,
Structural Concrete Products
Bentley Systems Inc.
Seattle, WA

Finite element analysis case studies and methods will be presented demonstrating how finite element analysis is used today by practicing engineers to design concrete structures. Topics presented will provide attendees practical solutions and techniques where finite element analysis can be applied for the design and analysis of various concrete structures such as liquid storage tanks, slabs, shear walls, dams, and more. Contractors, engineers, public agency employees, and structural engineers are encouraged to attend this session.

Accuracy of Finite Element-Based Slab Design Moments  
2:00 PM
Ben Deaton, PhD Candidate, Georgia Institute of Technology, Atlanta, GA; and Lawrence Kahn and Kenneth Will, Georgia Institute of Technology

Assumptions in FE Slab Analysis and Their Design Implications  
2:25 PM
Allan Bommer, Chief Design Engineer, Structural Concrete Products, Bentley Systems Inc., Seattle, WA

Practical Finite Element Analysis Issues for an Irregular R/C High-Rise Building  
2:50 PM
Myoungsu (James) Shin, Project Engineer, Rosenwasser/Grossman Consulting Engineers, New York, NY; and Benjamin Pimentel, Rosenwasser/Grossman Consulting Engineers
Tuesday, November 4, 2008
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Practical Use of Finite Element Analysis in the Design of Concrete Structures, Part 2 (cont.)

Finite Element Modeling and Design of Reinforced Concrete Horizontal Diaphragms for Complex High-Rise Buildings
Michael Seica, Project Engineer, Halcrow Yolles, Toronto, ON, Canada; Neb Erakovic, Halcrow Yolles; and Ahmed Elrefai, GMT Inc.

Finite Element Analysis of the IIT Campus Center Tube
Jeffery Volz, Assistant Professor, Missouri University of Science and Technology, Rolla, MO; and David Ekstrom, Holabird & Root LLC

Practical Design of Concrete Shear Walls for Nuclear Facilities Using Finite Element Analysis
Said Bolourchi, Principal Engineer, Optima Engineering, San Francisco, CA; and Daniel Eggers and Christine Roy, Simpson, Gumpertz & Heger, Inc.

Fabric-Formed Concrete Member Design
Robert Schmitz, President, RP Schmitz Consulting Engineers, Brookfield, WI
The purpose of this session is to give an overview of some of the new approaches and discuss their use as a framework for design and analysis of structural concrete beam-type members under torsion and combined loading. It covers several topics from the historical background outlining the development of research on torsion of RC members, the various theories and models, existing detailing requirements for torsional members, and design examples using three major design codes.

**Five Decades of Progress in Torsion Analysis and Design**
**2:00 PM**
**Abdeldjelil Belarbi**, Distinguished Professor, Missouri University of Science and Technology, Rolla, MO

**Torsion of Structural Concrete—A Historical Overview**
**2:10 PM**
**Thomas Hsu**, Moores Professor, University of Houston, Houston, TX

**Structural Behavior of Members Subjected to Torsion**
**2:35 PM**
**Abdeldjelil Belarbi**, Distinguished Professor, Missouri University of Science and Technology, Rolla, MO; **Gary Greene**, Professional Service Industries; and **Maria Vidigal de Lima**, Federal University of Uberlândia

**Advances in Analytical Modeling of Torsional Members**
**3:00 PM**
**Yi-Lung Mo**, Professor, University of Houston, Houston, TX; **Khalidoun Rahal**, Kuwait University; and **Liang-Jenq Leu**, National Taiwan University
Tuesday, November 4, 2008
2:00 PM - 5:00 PM

Recent Advances in Torsion Design of Structural Concrete (cont.)

Members Subjected to Combined Loadings Including Torsion 3:25 PM
Gary Greene, Project Engineer, Professional Service Industries, South Riding, VA; and Khaldoun Rahal, Kuwait University

Behavior and Design of Precast L-Spandrel Beams 3:50 PM
Paul S. Zia, Distinguished University Professor, North Carolina State University, Raleigh, NC; Gary Klein, Wiss, Janney, Elstner Associates, Inc.; Donald Logan, Stresscon Corporation; and Sami Rizkalla, Greg Lucier and Catrina Walter, North Carolina State University

Detailing for Torsion in RC Members 4:15 PM
Neal Anderson, Consultant, Concrete Reinforcing Steel Institute, Schaumburg, IL

Design Examples for Torsion in RC Members Using Current Major Design Codes 4:35 PM
Walter Dilger, Professor of Civil Engineering, University of Calgary, Calgary, AB, Canada; Christos Karayannis, Democritus University of Thrace; and Thomas Hsu, University of Houston
Seismic Design and Detailing of Bridge Protection Systems

Sponsored by ACI Committee 341, Earthquake-Resistant Concrete Bridges

Session Moderator: Ronald Watson
President
R. J. Watson Inc.
Amherst, NY

This session will cover information on the design and detailing of seismic isolation bearings, shock transmission units, and FRP strengthening systems.

- **Sliding Isolation Systems for Concrete Bridges**
  2:00 PM
  Ronald Watson, President, R.J. Watson Inc., Amherst, NY

- **A New SRMD Design Tool—The Multi-Surface Sliding Isolator**
  2:30 PM
  Paul Bradford, PE and Development Engineer, PB Engineering, West Falls, NY

- **CFRP Jackets as an Emergency Repair and a Protection System for Bridge Columns**
  3:00 PM
  Sarah Witt, Project Engineer, Fyfe Company LLC, San Diego, CA

- **Seismic/Wind Control of the Sutong Bridge Using Hybrid Viscous Damping Devices**
  3:30 PM
  Douglas Taylor, President, Taylor Devices, North Tonawanda, NY; and Robert Schneider and John Metzger, Taylor Devices

- **The Construction Phase for the Replacement of the Expansion Joint for the Alex Fraser Bridge**
  4:00 PM
  Eric de Fleuriot, Manager, Earth Tech Canada, Burnaby, BC, Canada

- **Selection of Expansion Joint Systems to Accommodate Large Seismic Movements**
  4:30 PM
  Mark Kaczinski, PE/Vice President of Engineering, D.S. Brown Company, North Baltimore, OH; and Larry Durain, D.S. Brown Company
Concrete Structures of St. Louis Bus Tour
$20 U.S. per person
This tour departs from the AIA Bookstore, located at 911 Washington Avenue across from the Concourse Building.

This narrated bus tour will take guests past the James Eads Bridge, Jefferson Memorial Expansion Site, The Gateway Arch, and The Old Courthouse, to name a few. In addition to the narrated bus tour, guests will also have the opportunity to take a short 10-minute walk through the City Museum, get a private 30-minute viewing of the Pulitzer, and exit the bus briefly to view the Eads Bridge.

✓ Separate fee required
Faculty Network Reception

Hosted by ACI Committee E803, Faculty Network Coordinating Committee

Faculty members and students are invited to attend this informal reception. During this time you will have an opportunity to exchange ideas and network. Light hors d’oeuvres will be available. Each attendee will receive one drink ticket upon arrival at the reception.
Concrete Mixer: Echoes of Oktoberfest
Sponsored by the ACI Missouri Chapter

Transport yourself back to nineteenth century Germany for an Oktoberfest-inspired Concrete Mixer. Hosted by the ACI Missouri Chapter, you will feel as though you’re inside a festival hall in Munich, with long tables and benches and authentic Bavarian music. This social event is perfect for meeting industry leaders and reconnecting with friends and colleagues.

Please use the drink tickets found in your convention registration packet for this event.
Adhesive Anchors: Their Importance in the Construction of Concrete Structures
Sponsored by ACI Committee 355, Anchorage to Concrete

Session Moderator: Donald Meinheit
Affiliated Consultant
Wiss, Janney, Elstner Associates Inc.
Chicago, IL

The assembled panel will discuss aspects of adhesive anchor behavior, design, and applications. Each panel member will make a brief presentation relative to one of the four aspects of using adhesive anchors research, manufacturing, installation, and design. The major emphasis will be on polymeric adhesives.

Researchers’ Perspective of Adhesive Anchor Behavior 9:00 AM
Werner Fuchs, Institute of Construction Materials, University of Stuttgart, Stuttgart, Germany

Manufacturers’ Perspective of Producing Adhesive Anchors 9:10 AM
Peter Grzesik, Technical Services Engineer, Hilti North America, Tulsa, OK

Contractors’ Perspective of Installing Adhesive Anchors 9:20 AM
Myles Murray, President, MAM LLC, Larkspur, CO

Structural Designers’ Perspective on Designing and Specifying Adhesive Anchors 9:30 AM
Peter Carrato, Principal Civil Engineer, Bechtel Corporation, Frederick, MD

Panel Discussion 9:40 AM
People Who Made a Difference in Concrete
Sponsored by ACI Committee 120, History of Concrete

Session Co-Moderators: Luke M. Snell
Eminent Scholar
DEW School of Construction
Arizona State University
Tempe, AZ

Kimberly Kramer
Director of Graduate Studies
Kansas State University
Manhattan, KS

This session will include a variety of papers on the technical advances in concrete and the people who made a difference in concrete. This session will have several short papers that provide insight into our past and the people who helped develop our concrete technology.

Alexandre Sarrasin, Boldness and Invention in Concrete Design
9:00 AM
Katrin Habel, Bridge Designer, UMA Engineering Ltd., Edmonton, AB, Canada

Doc’s Blocks Floor and Roof Construction
9:20 AM
Anthony Dolhon, Senior Engineer, Wiss, Janney, Elstner Associates Inc., Pennington, NJ

Early Concrete Freeways: Setting the Stage for the Interstate System
9:40 AM
Kurt Smith, Program Director, Applied Pavement Technology Inc., Urbana, IL

Eugene Freyssinet: The Magnificent Journey to Invent and Revolutionize Prestressed Concrete Construction
10:00 AM
Kenneth Shushkewich, Structural Engineer, KSI Bridge Engineers, San Francisco, CA

Stephen J. Hayde—Father of the Lightweight Aggregate Industry
10:20 AM
John Reis, President, Expanded Shale, Clay, and Slate Institute, Salt Lake City, UT; and Theodore Bremner, University of New Brunswick
People Who Made a Difference in Concrete (cont.)

The Hohokam and Caliche  
Luke M. Snell, Eminent Scholar, DEW School of Construction, Arizona State University, Tempe, AZ; and Billie Snell, Educational Consultant

Joseph Louis Lambot—Father of the Concrete Canoe (and Reinforced Concrete, too!)  
Andrew Budek-Schmeisser, Assistant Professor, New Mexico Institute of Mining and Technology, Socorro, NM; and Barbara Budek-Schmeisser, New Mexico Institute of Mining and Technology

Oscar Niemeyer's Seductive Concrete Curves  
Jussara Tanesi, Concrete Materials Engineer and Lab Manager, FHWA/Global, Vienna, VA; and Wael Ramadan, WDG Architecture

Making a Texture on the Concrete Industry  
Mike Murray, President, Decorative Concrete Supply, Shawnee, KS
Wednesday, November 5, 2008
9:00 AM - 12:00 PM

*The Spirit of Structural Concrete in Performance-Based Seismic Design of Bridges, Part 1
Sponsored by ACI Committee 341, Earthquake-Resistant Concrete Bridges

Session Co-Moderators: Pedro F. Silva
Assistant Professor
The George Washington University
Washington, DC

Hossam Abdou
Project Manager
Alfred Benesch & Co.
Chicago, IL

This session is intended to provide the bridge community of practicing engineers, academics, researchers, producers, and client agencies including federal, state, and local agencies with the latest developments and the state of the art on performance-based seismic design of concrete bridges.

Performance-Based Seismic Design of the Cast-in-Place Segmental Folsom Bridge
9:00 AM
Alex Harrison, Senior Bridge Engineer, CH2M Hill, Sacramento, CA; and Ayman Salama, CH2M Hill

Nonlinear Modeling of Bridge Structures in California 9:25 AM
Bozidar Stojadinovic, Professor, University of California Berkeley, Berkeley CA; Ady Aviram, University of California Berkeley; and Kevin Mackie, University of Central Florida

Seismic Damage States for Bridge Columns and Correlation with Performance Parameters 9:50 AM
M. Saiid Saiidi, Professor, University of Nevada-Reno, Reno, NV; and Ashkan Vosooghi, University of Nevada-Reno

Analytical Assessment and Comparison of Seismic Performance Evaluation Procedures Used for Design of Highway Bridges 10:15 AM
Oh-Sung Kwon, Assistant Professor, Missouri University of Science and Technology, Rolla, MO; and Amr Elnashai and Aman Mwafy, University of Illinois

* Denotes themed session
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Wednesday, November 5, 2008
9:00 AM - 12:00 PM

*The Spirit of Structural Concrete in Performance-Based Seismic Design of Bridges, Part 1 (cont.)

Direct Displacement-Based Design as an Alternative for Seismic Design of Bridges
Mervyn Kowalsky, Associate Professor, North Carolina State University, Raleigh, NC; and Vinicio Suarez, UTPL

Damping-Enhanced Seismic Strengthening of RC Bridge Columns for Multi-Objective Performances
Genda Chen, Professor, Missouri University of Science and Technology, Rolla, MO; and Kazi Karim, Missouri University of Science and Technology

Inelastic Web Crushing Performance Limits of High-Strength-Concrete Structural Walls
Rigoberto Burgueno, Associate Professor, Michigan State University, East Lansing, MI; and Eric Hines, Le Messurier

* Denotes themed session
Wednesday, November 5, 2008
9:00 AM - 12:00 PM

Use and Misuse of ACI Documents
Sponsored by ACI Committee RCC, Responsibility in Concrete Construction

Session Co-Moderators: Jim Kretz
Field Operation Manager
Walbridge Aldinger
Detroit, MI

Boyd Clark
Technical Director Construction
Materials Services
RJ Lee Group Inc.
Monroeville, PA

This session includes topics regarding confusion between guidance and mandatory language documents, varying interpretations of documents, case studies, legal issues, and topics related to responsibility. A panel discussion where audience members can ask questions to the panel of speakers will be held following the presentations.

Poor Specifications I Have Seen 9:00 AM
Ward R. Malisch, Technical Director, American Society of Concrete Contractors, Northville, MI

Use and Misuse of ACI Documents 9:20 AM
Kenneth Bondy, Structural Engineer, Consulting Structural Engineer, West Hills, CA

Developing Complete and Unambiguous Specifications 9:40 AM
Eldon Tipping, President, Structural Services Inc., Richardson, TX

How to Abuse and Misuse ACI 301 10:00 AM
W. Calvin McCall, Senior Materials Engineer, Concrete Engineering Specialists, Charlotte, NC

The Adverse Affect High Cementitious Contents Have on High-Strength Concrete 10:20 AM
Casimir Bognacki, General Manager of Material Engineering Division, Port Authority of New York & New Jersey, Jersey City, NJ

Case Studies in the Misuse of Specifications 10:40 AM
Jeffrey Coleman, Attorney at Law/PE, Coleman Hull & Van Vliet, Minneapolis, MN
Use and Misuse of ACI Documents (cont.)

**Durability Beyond ACI 201**

Michael Thomas, Professor, University of New Brunswick, Fredericton, NB, Canada

**Panel Discussion**

- **Ward R. Malisch**, Technical Director, American Society of Concrete Contractors, Northville, MI;
- **Kenneth Bondy**, Consulting Structural Engineer, West Hills, CA;
- **Casimir Bognacki**, General Manager of Material Engineering Division, Port Authority of New York & New Jersey, Jersey City, NJ;
- **Eldon Tipping**, President, Structural Services Inc., Richardson, TX;
- **Jeffrey Coleman**, Attorney at Law/PE, Coleman Hull & Van Vliet, Minneapolis, MN;
- **W. Calvin McCall**, Senior Materials Engineer, Concrete Engineering Specialists, Charlotte, NC;
- **Michael Thomas**, Professor, University of New Brunswick, Fredericton, NB, Canada
Wednesday, November 5, 2008
2:00 PM - 5:00 PM

Advances in Fiber-Reinforced Concrete—A Tribute to Gordon Batson
Sponsored by ACI Committee 544, Fiber Reinforced Concrete

Session Co-Moderators: Nur Yazdani
Professor and Chairman of Civil Engineering
University of Texas at Arlington
Arlington, TX

Matti Adan
Managing Engineer
Exponent
Menlo Park, CA

This session will be held to honor Professor Gordon Batson for his many years of dedicated service to ACI Committee 544 and to the development of the field of fiber-reinforced concrete. This session will include key presentations from experts from the academia and industry on recent advances in fiber-reinforced concrete application. Presentations will include topics on design, performance, and repair of concrete structures with a variety of fibers. The session will be of significant interest to academicians, practitioners, and others.

Introduction 2:00 PM
Nur Yazdani, Professor and Chairman of Civil Engineering, University of Texas at Arlington, Arlington, TX

Remarks by Gordon Batson 2:05 PM
Gordon Batson, Professor of Civil & Environmental Engineering, Clarkson University, Potsdam, NY

Rapid-Set Fiber-Reinforced Concrete for Repair and Retrofit 2:15 PM
P. Balaguru, Distinguished Professor of Civil and Environmental Engineering, Rutgers University, Piscataway, NJ

Prediction of Flexural Strength of RC Beams with Steel Fibers 2:38 PM
Jubum Kim, Assistant Professor of Civil Engineering, Pennsylvania State University Harrisburg, Middletown, PA

Fracture Properties of FRC 3:01 PM
Maria Lopez, Will Assistant Professor, Pennsylvania State University, University Park, PA
Wednesday, November 5, 2008
2:00 PM - 5:00 PM

Advances in Fiber-Reinforced Concrete—A Tribute to Gordon Batson (cont.)

Reduction of Secondary Steel in Post-Tensioned Anchorage Zones Using SFRC
Kamal Tawfig, Professor and Chairman of Civil and Environmental Engineering, FAMU-Florida State University, Tallahasee, FL; Stacey Johnson, Figg Bridge Engineers; and Nur Yazdani, University of Texas at Arlington

FRC Performance Comparison: Direct Tensile Test, Beam-Type Bending Test, and Round Panel Tests
Shih-ho Chao, Assistant Professor of Civil Engineering, University of Texas at Arlington, Arlington, TX; and Nur Yazdani, University of Texas at Arlington

Towards Rational Design Using Fibers in Concrete
Vellore Gopalaratnam, Professor of Civil Engineering, University of Missouri-Columbia, Columbia, MO

Flexural Performance of Glass Fiber-Reinforced Cement Sandwich Panels
Shashi Marikunte, Assistant Professor of Civil Engineering, Pennsylvania State University Harrisburg, Middletown, PA
Presentation topics may focus on tests that are currently used in performance specifications or that may become used in future performance specifications. Parameters of concern include but are not limited to: 1) fresh properties such as viscosity, yield strength, or air void content and distribution; and 2) parameters such as permeability or diffusivity. Discussions of existing tests or novel tests are both welcome, as well as discussion of nondestructive techniques.

Please note that Part 2 of this session will take place during the ACI Spring 2009 Convention held in San Antonio.

Early Age Test and Criteria for Predicting Long-Term Chloride Penetration Resistance into Concrete 2:00 PM
Karthik Obla, Managing Director of Research & Materials Engineering, National Ready Mixed Concrete Association, Silver Spring, MD

Use of Early-Age Changes in Resistivity to Determine Development of Impermeability 2:30 PM
R. Doug Hooton, Professor, University of Toronto, Toronto, ON, Canada; and Michelle Nokken, Concordia University

Hollow Dynamic Pressurization as an Early Age Durability Test 3:00 PM
Christopher Jones, Research Assistant, Texas A&M University, College Station, TX; and Zachary Grasley, Texas A&M University

Investigation of Curing Effectiveness with Internal Sensors 3:30 PM
Michelle Nokken, Assistant Professor, Concordia University, Montreal, QC, Canada; and Attila Zsaki, Concordia University
Early Age Test Methods for Performance Specifications (cont.)

Evaluation Techniques for Early Age Properties of High Early Strength White Cement for Terrazzo
Chalermwut Sanguanyat, Engineer, Siam Cement Group, Bangsue, Bangkok, Thailand; and Wilasa Vichit-Vadakan, Siam Cement Group

The Early-Age Setting Behavior of Cement Pastes Studied Using Rheological Properties and Ultrasonic Wave Propagation
Gaurav Sant, Student, Purdue University, West Lafayette, IN; Chiara Ferraris, National Institute of Science and Technology; and W. Jason Weiss, Purdue University
Wednesday, November 5, 2008
2:00 PM - 5:00 PM

**Shotcrete Construction**

Sponsored by ACI Committees 506, Shotcreting; C660TG, Shotcrete Nozzleman Certification; and E703, Concrete Construction Practices

Session Co-Moderators: William Palmer
President
Complete Construction Consultants
Lyons, CO

Jean-Francois Dufour
Technical Director
King Packaged Materials Company
Blainville, QC, Canada

This session will cover the basics of shotcrete construction and practices based on the new edition of CCS-4 (*Shotcrete for the Craftsman*, ACI Shotcrete Nozzleman Certification Program, and new Shotcrete Technologies.)

**Tribute to Ted Crom and Pertinence of Shotcrete**

*Nozzleman Certification*

**Lars Balck**, Senior Vice President, The CROM Corporation, Asheville, NC

**Strategic Development of the New CCS-4, Shotcrete for the Craftsman**

**Jean-Francois Dufour**, Technical Director, King Packaged Materials Company, Blainville, QC, Canada

**Materials for Shotcrete and Construction**

**Marc Jolin**, Assistant Professor, Laval University, Quebec City, QC, Canada; and **Louis-Samuel Bolduc**, Laval University

**Shotcrete Equipment and Placement of Shotcrete**

**Raymond Schallom**, Sales and Shotcrete Specialist, Allentown
Shotcrete Technology, Allentown, PA

**Use of Fibers in Shotcrete**

**Peter Tatnall**, Retired, Performance Concrete Technologies, Marietta, GA

**Versatility of Shotcrete/Shotcrete Repairs**

**Curt White**, President, Coastal Gunite Construction Co., Bradenton, FL
Wednesday, November 5, 2008  
2:00 PM - 5:00 PM

*The Spirit of Structural Concrete in Performance-Based Seismic Design of Bridges, Part 2  
Sponsored by ACI Committee 341, Earthquake-Resistant Concrete Bridges

Session Co-Moderators: Pedro F. Silva  
Assistant Professor  
George Washington University  
Washington, DC

Hossam Abdou  
Project Manager  
Alfred Benesch & Co.  
Chicago, IL

This session is intended to provide the bridge community of practicing engineers, academics, researchers, producers, and client agencies including federal, state, and local agencies with the latest developments and the state of the art on performance-based seismic design of concrete bridges.

Performance-Based Design Approach for RC Circular Bridge Columns Under Combined Loadings  
Suriya Prakash Shanmugam, Professor, Missouri University of Science and Technology, Rolla, MO; and Abdeldjelil Belarbi, Missouri University of Science and Technology

Emergency Seismic Damage Repair of RC Bridge Columns  
M. Saiid Saiidi, Professor, University of Nevada-Reno, Reno, NV; and Ashkan Vosooghi, University of Nevada-Reno

Performance-Based Post-Earthquake Repair Metrics for RC Bridges  
Kevin Mackie, Assistant Professor, University of Central Florida, Oviedo, FL; and Bozidar Stojadinovic, University of California-Berkeley

A Manual for Performance-Based Seismic Retrofitting of Highway Bridges  
Ian Buckle, Professor, University of Nevada-Reno, Reno, NV

Performance-Damage Evaluation of RC Bridges Designed According to LFRD Seismic Design Specifications  
Tuong Nguyen, Graduate Fellow, George Washington University, North Hollywood, CA; and Pedro F. Silva, George Washington University

*Denotes themed session
Effects of Shear Key Failure on Seismic Performance of Post-Tensioned Box Girder Bridges
J.I. Schoettler, Professor, University of California, San Diego, CA; and Jose Restrepo, University of California

Performance-Based Design Criteria for Seismic Investigation of the Approaches to the New Mississippi River Bridge in St. Louis
Hossam Abdou, Project Manager, Alfred Benesch & Company, Chicago, IL; and Ihab Darwish, Alfred Benesch & Company

*Denotes themed session
Thursday, November 6, 2008
8:00 AM - 5:00 PM

✓ ACI/PCA 318-08 Building Code Seminar
ACI and PCA Member Rate: $457 U.S.
Nonmember Rate: $597 U.S.

7:30 AM  Registration open. Pastries and coffee available.

Speakers: Neil M. Hawkins
Professor Emeritus
University of Illinois
Urbana, IL

Basile G. Rabbat
Manager, Structural Codes
Portland Cement Association
Skokie, IL

There are many important changes in ACI 318-08. The licensed design professional is required to assign exposure categories and classes based on the severity of the anticipated exposure of structural members to achieve durability. Requirements are presented to select effective stiffness to determine lateral deflections. A new simple procedure helps determine if compression members are considered braced or unbraced. Provisions are introduced for the design of headed stud assemblies. Design and detailing requirements are correlated with the Seismic Design Categories in the IBC. The use of high-strength confining steel is permitted to help reduce congestion. The beneficial effect of supplementary reinforcement and anchor reinforcement on the capacity of anchors is quantified. Seminar also includes lunch.

✓ = Separate fee required
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